Service Manual DVD/VCR DECK



PbF Solder Lead free PV-D4735S PV-D4745 PV-D4745S PV-D4745S-K

For servicing the R4-Mechanism Chassis for PV-Model, Please refer to the R4-Mechanism-Chassis-for-PV-Model Service Manual (Order No. MKE0401000C1).



l'	TEM	SPECIFICATION	l1	ЕМ	SPECIFICATION
	Video	Head: 4 rotary heads helical scanning system Input Level: VIDEO IN Jack (Phono type) 1.0 Vp-p 75 Ω unbalanced Output Level: VIDEO OUT Jack (Phono type) 1.0 Vp-p 75 Ω unbalanced		Digital Audio Output	Digital optical connector
	Audio	Head: Normal Mono: 1 stationary head Hi-Fi Stereo: 2 rotary heads		DVD Video Output	S-VIDEO Output Jack (S4P) Component Video Output Jack (Phono type) Video Output Jack (Photo type)
		Input Level: AUDIO IN Jack (Phono type) -10 dBv 50 kΩ unbalanced Output Level: AUDIO OUT Jack (Phono type) -8 dBv 1kΩ unbalanced	DVD	DVD Audio	Audio Output 1, 2 (L), (R) Jack (Phono type)
VCR	Tuner	Broadcast Channels: VHF 2~13, UHF 14~69 CABLE Channels: Midband A through I (14~22) Superband J through W (23~36) Hyperband AA~EEE (37~64)		Output Pickup	Wave length: 655 nm (DVD), 790 nm (Video CD/CD) Laser power: CLASS II
		Lowband A-5~A-1 (95~99) Special CABLE channel 5A (01)		Power	Source: 120 V AC ± 12 V AC, 60 Hz ± 3 Hz Consumption: Approx. 22 W (Power on), Approx. 0.9 W (Power off)
	Tape Format	Ultraband 65~94, 100~125 Tape width 12.7 mm (1/2 inch) high density tape		Television System	EIA Standard (525 lines, 60 fields) NTSC Color Signal
	RF Out	CH 3/CH 4 switchable 72 dBμ (open voltage) 75 Ω unbalanced	GENERAL	Operating Condition	5 °C - 40 °C (41 °F - 104 °F) (Temperature) 10 % - 75 % (Humidity)
	Tape Speed	SP: 1-5/16 i.p.s (33.35 mm/s) SLP: 7/16 i.p.s (11.12 mm/s) Record/Playback Timer & hr with 160 min, type tape used in SLP mode.		Dimension (W x H x D)	430 mm x 93 mm x 255 mm (16-15/16 inch x 3-11/16 inch x 10-1/16 inch)
DVD	Discs Played	Record/Playback Timer: 8 hr. with 160 min. type tape used in SLP mode (1) DVD-VIDEO disc: DVD-AUDIO disc (PV-D4755/PV-D4755S-K Only): 12 cm (5 inch) single-sided, single-layer 12 cm (5 inch) double-sided, double-layer (one layer per side) 8 cm (3 inch) single-sided, double-layer 8 cm (3 inch) single-sided, double-layer 8 cm (3 inch) double-sided, double-layer		Weight Solder	3.7 kg (8.2 lbs.) This model uses lead free solder (PbF).

Weight and dimensions shown are approximate.
Designs and specifications are subject to change without notice.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturerís specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of DVD VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect DVD VCR from being damaged by accidental shorting that may occur during servicing.
- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

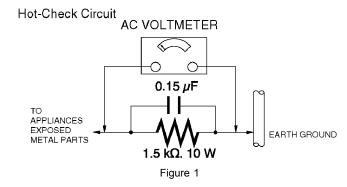
- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 $\mathrm{M}\Omega$ and 5.2 $\mathrm{M}\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be infinity.

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5 k Ω , 10 W resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1 k Ω /V or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- The potential at any point should not exceed 0.75 V RMS.

A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks. Leakage current must not exceed 1/2 mA. In case a

measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.



1.1. LASER PRODUCT

CLASS I LASER PRODUCT

 This equipment is certified to comply with DHHS Rules 21 CFR Chapter 1, Subchapter J in effect as of date of manufacture. (Only for U.S.A.)

This equipment is classified as a Class I (Class 1) level LASER Product and there is no hazardous LASER radiation with the safety protection.

Caution:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Danger:

The serviceman should not remove the cover of drive unit and should not service because the drive unit is a nonserviceable parts. Please check that the labels.

Never touch the internal parts in order to avoid EXPOSURE TO VISIBLE LASER RADIATION.

Unplug the AC power cord to the equipment when opening the top cover.

When the power switch is On, do not place your eyes close to the front panel opening door or the other openings to look into the interior unit.

LASER Specification

Class I level A LASER Product (Class 1 level A LASER Product)

Wave Length: 640 - 670 nm (at DVD)

770 - 810 nm (at CD)

Laser Power: No hazardous radiation is emitted with the safety protection.

1.2. PRECAUTION OF LASER DIODE

CAUTION:

This unit utilizes a class III a laser. Visible laser radiation is emitted from the optical pickup lens when the unit is turned on:

- 1. Do not look directly into the pickup lens.
- 2. Do not use optical instruments to look at the pickup lens.
- 3. Do not adjust the preset variable resistor on the optical pickup.
- 4. Do not disassemble the optical pickup unit.
- 5. If the optical pickup is replaced, use the manufactures specified replacement pickup only.
- 6. Use of control or adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.

2 PREVENTION OF ELECTRO-STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits, some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should remove electrostatic charge for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

"NOTE toCATV system installer:

This reminder is provided to call the CATV system installer(s attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

3 ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a printing on the PCB. (Please refer to figures.)



Printed case

CAUTION:

· Pb free solder has a higher melting point than standard solder;

Typically the melting point is 50°F - 70°F (30°C - 40°C) higher.

Please use a soldering iron with temperature control and adjust it to 700°F ± 20°F (370°C ± 10°C).

In case of using high temperature soldering iron, please be carefull not to heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- · All products with the printed circuit board with printing must be serviced with lead free solder.

When soldering or unsoldering, completely remove all of the solder from the pins or solder area, and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn96.5 Ag3.0 Cu0.5.

4 SERVICE NOTES (PLEASE READ)

4.1. SELF-DIAGNOSIS INDICATION DISPLAY

Self-Diagnostic System facilitates finding the cause of the fault. The following data will be displayed on the Front Light-up Indicators (5 LEDs).

4.1.1. Transmission check for IIC BUS.

The condition of IIC bus transmission before shut off is displayed.

1. Press CH DOWN button on unit and 4 key on remote together in shut off or power off condition.

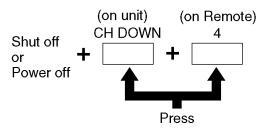


Fig. 1-1-1

2. To release from this mode, press any operation key on remote or turn on the power.

EXPLANATION OF JIC BUS TRANSMISSION

EXPLANATION OF IIC BUS TRANSMISSION									
Condition of IIC bus transmission	Condition of IIC bus transmission	Condition of IIC bus transmission	Condition of IIC bus transmission	Front Light-up Indicators					
(IC6001 < Tuner)			(IC6001 < IC4201)	VCR	REC	TIMER	PLAY	DVD	
		ок	OK	OFF	OFF	OFF	OFF	OFF	
	ок	OK	NG	OFF	OFF	OFF	OFF	ON	
		NG	OK	OFF	OFF	OFF	ON	OFF	
ОК		ING	NG	OFF	OFF	OFF	ON	ON	
	NG	ок	OK	OFF	OFF	ON	OFF	OFF	
		OK	NG	OFF	OFF	ON	OFF	ON	
		NG	OK	OFF	OFF	ON	ON	OFF	
		ING	NG	OFF	OFF	ON	ON	ON	
		ок	OK	OFF	ON	OFF	OFF	OFF	
	ок	OK	NG	OFF	ON	OFF	OFF	ON	
		NG	OK	OFF	ON	OFF	ON	OFF	
NG		NG NG	NG	OFF	ON	OFF	ON	ON	
ING		ок	OK	OFF	ON	ON	OFF	OFF	
	NG	OK	NG	OFF	ON	ON	OFF	ON	
	ING	NG	OK	OFF	ON	ON	ON	OFF	
		ING	NG	OFF	ON	ON	ON	ON	

Fig. 1-1-2

4.1.2. VCR Mode of Error Code

The condition of VCR Mode before shut off is displayed.

1. Press CH DOWN button on unit and 1 key on remote together in shut off or power off condition.

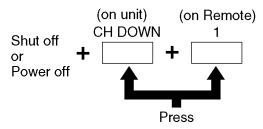


Fig. 1-2-1

2. To release from this mode, press any operation key on remote or turn on the power.

EXPLANATION OF VCR MODE

VCR Mode	Front Light-up Indicators				VCR Mode	Front Light-up Indicators					
VOITIVIOGE	VCR	REC	TIMER	PLAY	DVD	VOITIVIOGE	VCR	REC	TIMER	PLAY	DVD
STOP	OFF	OFF	OFF	OFF	OFF	CUE	OFF	OFF	ON	OFF	ON
EJECT	OFF	OFF	OFF	OFF	ON PLAY		OFF	ON	OFF	OFF	OFF
REW	OFF	OFF	OFF	ON	OFF	STILL	OFF	ON	OFF	OFF	ON
FF	OFF	OFF	OFF	ON	ON	REC	OFF	ON	OFF	ON	OFF
REV	OFF	OFF	ON	OFF	OFF	REC PAUSE	OFF	ON	OFF	ON	ON

Fig. 1-2-2

4.1.3. Mechanism of Error Code

The detecting condition and movement of mechanism is displayed.

1. Press CH DOWN button on unit and 2 key on remote together in shut off or power off condition.

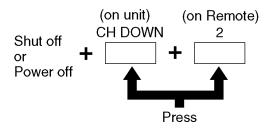


Fig. 1-3-1

2. To release from this mode, press any operation key on remote or turn on the power.

EXPLANATION OF ERROR CODE

Error Condition	Remedy / Check	Front Light-up Indicators						
Error condition	Tremedy / eneak	VCR	REC	TIMER	PLAY	DVD		
No Errer		OFF	OFF	OFF	OFF	OFF		
CYL PFG pulse can not be detected when the Cylinder starts.	Please check the Cylinder motor, Cylinder drive circuit and CYL PFG signal circuit.	OFF	OFF	OFF	OFF	ON		
CAP FG pulse can not be detected during the Mechanism Initial operation (Tape rewinding by the S-Reel) at DOWN position.	Please check the Capstan motor, Capstan drive circuit and CAP FG signal circuit.	OFF	OFF	OFF	ON	OFF		
Loading Lock during Loading operation at DOWN position.	Please check the Mechanism, Loading Motor, Drive circuit, Drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit.	OFF	OFF	OFF	ON	ON		
Loading Lock during Unloading operation at DOWN position.	Please check the Mechanism, Loading Motor, Loading Motor drive circuit, Loading motor drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit.	OFF	OFF	ON	OFF	OFF		
S-reel pulse can not be detected during Unloading operation.	Please check the Mechanism S-reel system, S-reel sensor, S-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on.	OFF	OFF	ON	OFF	ON		
Loading (cassette) Lock during Cassette Up operation.	Please check the Mechanism, Loading motor, Loading motor drive circuit, Loading motor drive control signal circuit, Mode Select SW and the Mode Select SW input signal circuit.	OFF	OFF	ON	ON	OFF		
Head clog detection.	Clean the Cylinder Head.	OFF	ON	OFF	ON	ON		
The position signal from Mode Select SW can not be detected.	Check Mode Select SW contact.	OFF	ON	ON	ON	OFF		
CAP FG pulse can not be detected during Cassette in operation.	Please check the Capstan motor, Capstan motor drive circuit and the CAP FG signal circuit.	OFF	ON	ON	ON	ON		
Cylinder Lock	Please check the Cylinder motor, Cylinder motor drive circuit and the CYL HSW signal circuit.	ON	OFF	OFF	OFF	OFF		
S-reel Lock.	Please check Mechanism S-reel system, S-reel sensor, S-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on.	ON	OFF	OFF	OFF	ON		
T-reel Lock.	Please check Mechanism T-reel system, T-reel sensor, T-reel sensor input signal circuit, Capstan motor, Capstan motor drive circuit, Capstan control signal circuit, and so on.	ON	OFF	OFF	ON	OFF		
Eject operation due to error condition.	Please check the Cassette tape, S-photo sensor, S-reel and Capstan system.	ON	ON	ON	ON	ON		
Disc Motor of DVD Mechanism unit Error.	Please check the Disc Motor of DVD Mechanism unit, and confirm the DVD Service Mode2.	Flashing	Flashing	Flashing	Flashing	Flashing		

Fig. 1-3-2

4.1.4. Reason for Eject of Error Code

When an eject operation due to error condition, the reason of ejection is displayed.

1. Press CH DOWN button on unit and 3 key on remote together in shut off or power off condition.

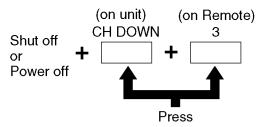


Fig. 1-4-1

To release from this mode, press any operation key on remote or turn on the power.

EXPLANATION OF CODE

27.1.27.117.11.01.01								
Reason of Eject	Front Light-up Indicators							
of Error Condition	VCR	REC	TIMER	PLAY	DVD			
Cassette tape is off from S-Post at Down position.	OFF	OFF	OFF	OFF	ON			
Capstan motor can not rotate.	OFF	OFF	OFF	ON	OFF			
Mechanism Lock during Loading operation at DOWN position.	OFF	OFF	OFF	ON	ON			
Both ends of tape is detected at DOWN position.	OFF	OFF	ON	OFF	OFF			

Fig. 1-4-2

4.1.5. Memory and Clear of Fault Code

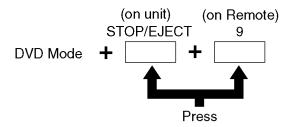
- Self-diagnostic data is memorized on EEPROM (IC6004) (latest Error code only).
- \cdot Self-diagnostic data is cleared by Memory all clear.

4.2. DVD SERVICE MODE

4.2.1. How to enter DVD Service Mode

- 1. Connect a TV Monitor.
- 2. Set the unit to DVD mode.
- 3. Press STOP/EJECT button on the unit and 9 key on the remote controller together with no cassette inserted.

The unit will enter the DVD Service Mode 1.



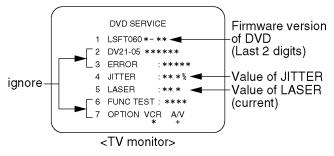


Fig. 2-1

Press the LEFT or RIGHT key on the remote again to enter DVD Service Mode 2.

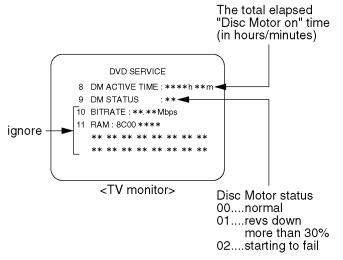


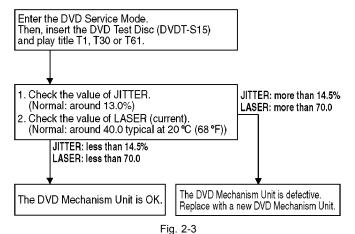
Fig. 2-2

Note:

- a. After replacing the DVD Unit, press the CLEAR key on the remote in this mode. The total elapsed "Disc Motor on" time (in hours/minutes) will be cleared to 0.
- b. If 01 or 02 is always displayed in 9 DM STATUS, replace the DVD Unit because the Disc Motor is defective.
- 5. To confirm the value of JITTER and the value of LASER (current), insert the DVD Test Disc into the DVD Unit.
- 6. To release from this mode, turn off the power.

4.2.2. Troubleshooting hint (standard) for this mode

It can be determine whether the DVD Mechanism Unit is defective by checking the value of JITTER and the value of LASER (current).



Function displayed on the TV monitor:

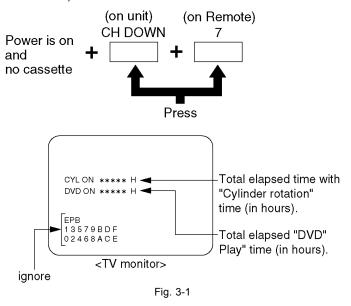
4.3.

• the total elapsed "Cylinder rotation" time (in hours)

USAGE SCREEN MODE

- · the total elapsed "DVD Play" time (in hours)
- 1. With power turned on and no cassette, press CH DOWN button on unit and 7 key on remote controller together.

(The USAGE SCREEN will be displayed on the TV Monitor.)



Note:

- 1. After replacing the Cylinder Unit, press COUNTER RESET button on remote controller in this mode. Total elapsed "Cylinder rotation" time (in hours) will be cleared to 0.
- 2. After replacing the DVD Mechanism Unit, press ADD/DLT button on remote controller in this mode. Total elapsed "DVD Play" time (in hours) will be cleared to 0.
- 3. To release from Usage Screen Mode, press any operation button on remote controller or insert a cassette tape in this mode. The unit will return to normal operation mode.

4.4. **EEPROM IC (IC6004), MAIN** C.B.A. REPLACEMENT NOTE

After replacing EEPROM IC (IC6004) or Main C.B.A., be sure to perform the "PG SHIFTER ADJUSTMENT".

4.5. GROUNDING FOR ELECTROSTATIC BREAKDOWN

Prevention

1. Human body grounding

Use the antistatic wrist strap to discharge the static electricity from your body.

2. Work table grounding

Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.

Caution:

The static electricity of your clothes will not be groundedthrough the wrist strap. So take care not to let your clothestouch the optical pickup.

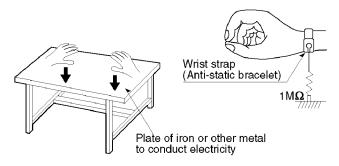


Fig. 5-1

4.6. METHOD FOR EJECTING THE DVD TRAY MANUALLY

- 1. Insert a Screwdriver or similar object into the Eject hole.
- 2. Press it gently, and then pull the Tray fully out.

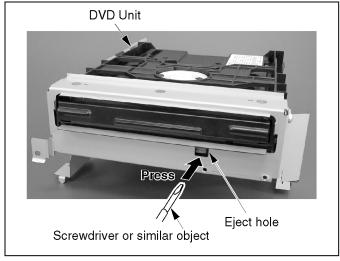


Fig. 6-1

4.7. SERVICE POSITION

Service Position	Purpose
Service Position (1)	Mechanism check Mechanical adjustment Electrical adjustment
Service Position (2)	Main C.B.A. check
Service Position (3)	DVD Main C.B.A. check

CAUTION:

HOT CIRCUIT (Primary circuit) exists on the Main C.B.A. Use extreme care to prevent accidental shock when servicing.

NOTE:

When carring out loading of the cassette tape, if light is strong, a tape may not carry out loading.

Please shade a Mechanism Unit top or weaken lighting.

4.7.1. Service Position (1)

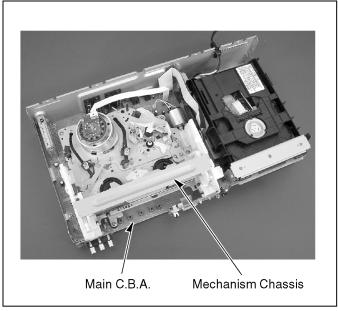


Fig. 7-1

4.7.2. Service Position (2)

Turn on the power and insert the Cassette tape.

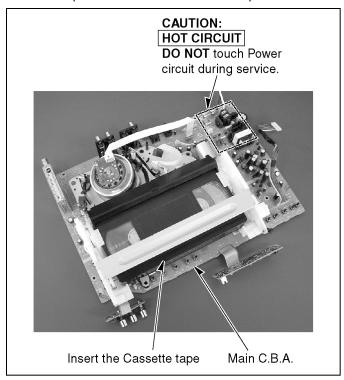


Fig. 7-2

After disconnecting the AC cord, turn over the Main C.B.A. and Mechanism Chassis together.

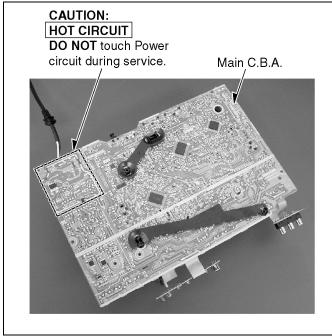


Fig. 7-3

4.7.3. Service Position (3)

In Service Position (3), the DVD Main C.B.A. without Extension Cables can be performed.

Turn on the power and playback the disc.

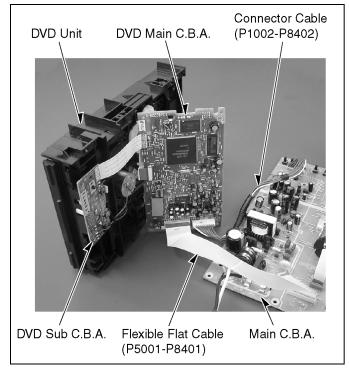


Fig. 7-4

4.8. HOT CIRCUIT

Primary circuit exists on the Main C.B.A.

This circuit is identified as "**HOT**" on the C.B.A. and in the Service Manual. Use extreme care to prevent accidental shock when servicing.

4.9. SERVICE MODE

In order to inhibit detection of the Supply & Takeup Photo Transistors, Reel Sensor, and Cylinder Lock can be inhibited. In this mode, Mechanism movement can be confirmed. When removing Cassette Up Ass´y, it can be confirmed without a cassette.

To enter Service Mode:

Press and hold FF and CH DOWN buttons on the unit together over 5 seconds in power off condition. The unit goes into Service Mode. The VCR and DVD LEDs blinks.

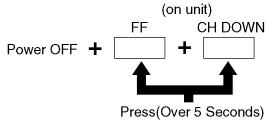


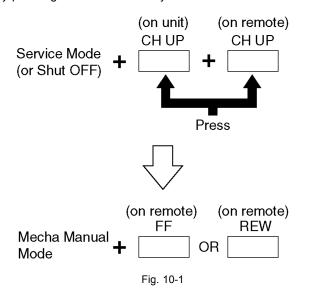
Fig. 9-1

To release from this mode, disconnect AC Plug.

4.10. MECHA MANUAL MODE

In shut off condition or in Service Mode, press the CH UP button on the unit and CH UP key on the remote together without a cassette.

In this mode, Loading or Unloading operation can be confirmed by pressing the FF or REW key on the remote.



To release from this mode, disconnect AC Plug.

Note:

When Loading with no cassette tape, push the portion (A) on Cassette Holder Unit so that the Sefety Lever clear the 2 Tabs as show in below.

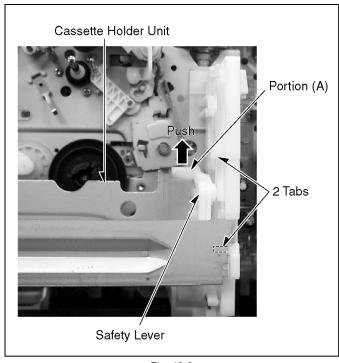


Fig. 10-2

4.11. TRACKING CENTER MODE (TRACKING FIX AT CENTER)

Insert the Cassette tape. Set the unit into Service Mode. Press CH UP button and CH DOWN button on unit together in Play back mode. "TRACKING CENTER" will be displayed on the TV monitor.

In this mode, the tracking is fixed at center. (Auto tracking and manual tracking functions are not operational.)

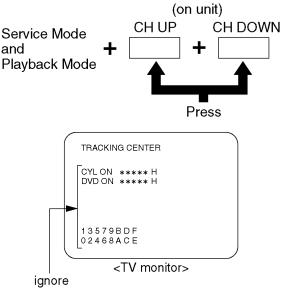


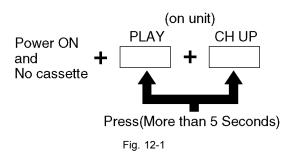
Fig. 11-1

To release from this mode, press CH UP button and CH DOWN button on unit together again.

4.12. HOW TO RESET ALL MEMORY FUNCTIONS

To reset all memory functions to factory setting (if relocating the Deck, or if initial setup needs to be redone), press and hold both VCR PLAY and CH UP buttons on the unit for more than 5 seconds in power on and **no cassette inserted** condition.

The power will shut off.



4.13. F.F.C. CONNECTION NOTE

4.13.1. F.F.C. between the Mechanism and Main C.B.A.

Be careful with the direction of F.F.C. to Connectors as shown. **Note:**

- 1. Insert the F.F.C. so that it is parallel to the connector.
- 2. After inserting the F.F.C., check that the F.F.C. does not incline.

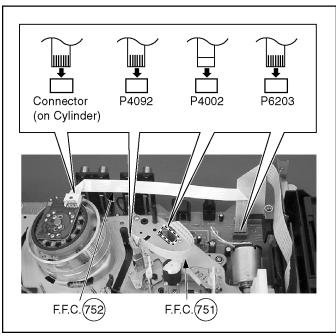


Fig. 13-1

4.13.2. F.F.C. between the DVD Unit and Main C.B.A.

Be careful with the direction of F.F.C. to Connectors as shown. **Note:**

- 1. Insert the F.F.C. so that it is parallel to the connector.
- 2. After inserting the F.F.C., check that the F.F.C. does not incline.

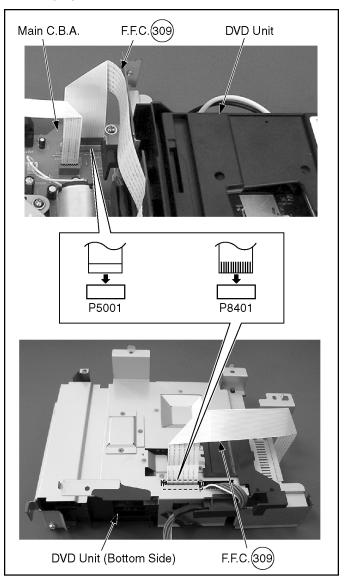


Fig. 13-2

4.14. HOW TO CONFIRM AUTO CLOCK SET FEATURE

- Connect an RF cable from the output of one unit to the input of the test unit.
- 2. Select corresponding RF channels.
- 3. Playback a recording of P.B.S. channel including clock set data and confirm this feature.

4.15. VARIABLE VOLTAGE ISOLATION TRANSFORMER

An Isolation Transformer should always be used during the servicing of DVD VCR whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect DVD VCR from being damaged by accidental shorting that may occur during servicing.

Also, when troubleshooting the above type of Power Supply Circuit, a variable isolation transformer is required in order to increase the input voltage slowly.

4.16. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

4.17. MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	Ε
PV-D4745S-K	F
	G
Not Used	PT

Note:

Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram Notes, for mark "PT."

5 DISASSEMBLY/ASSEMBLY PROCEDURES

5.1. CABINET SECTION

5.1.1. Disassembly Flowchart

Perform disassembly procedures in the order described in the "Disassembly Flowchart" Shown below. When reassembling, use the reverse procedure.

CAUTION:

Disconnect AC plug before disassembly or assembly.

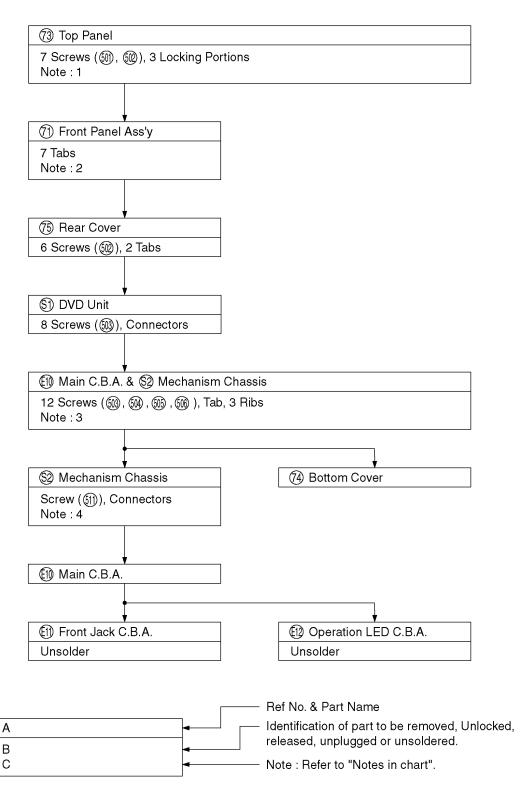


Fig. C1

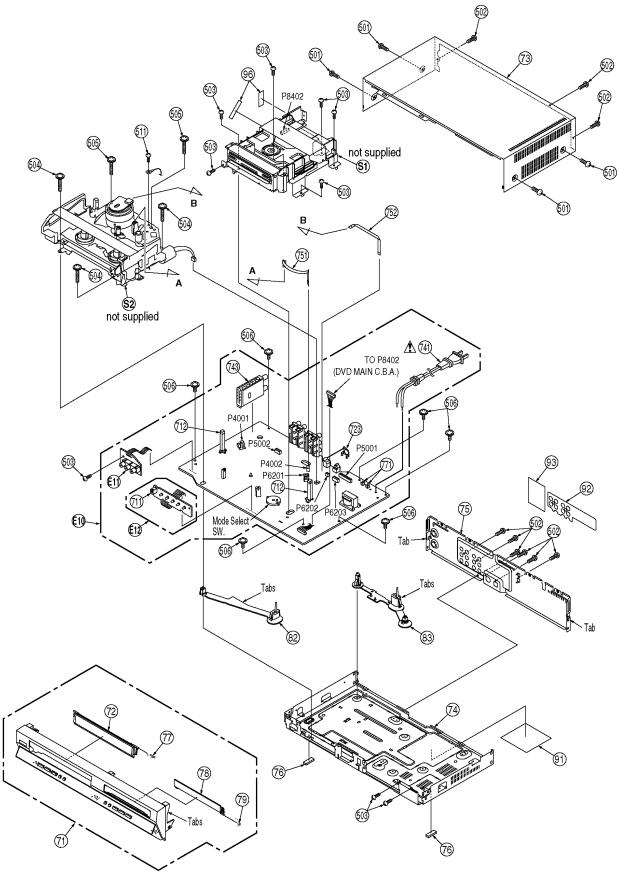


Fig. C2

5.1.1.1. Notes in chart (Cabinet Section)

1. Removal of Top Panel

- a. Remove the 7 screws (501, 502).
- b. Raise the rear portion of Top Panel, and insert your hand in the inside and lift the position "A" to release the Top Panel from Locking Portion.

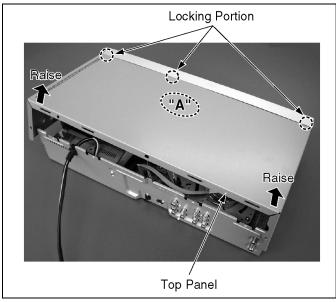


Fig. C3

Installation of Top Panel

Install the Top Panel front portion at a downward angle so that the tab on the Front Panel Ass'y fits into the hole in the Top Panel.

Then, Lover the rear portion into place and tighten 7 Screws (501, 502).

2. Installation of Front Panel Ass'y

CAUTION:

Opener Lever may be damaged when Front Panel Ass'y is installed, with Cassette Door-Lid of Front Panel Ass'y and Opener Lever of Cassette Up Ass'y set incorrectly.

- a. When installing the Front Panel Ass'y, swing the Cassette Door-Lid all the way open until the Cassette Door tab clears the Opener Lever.
- b. Make sure that all locking tabs are aligned properly.Then, press the Front Panel straight in.

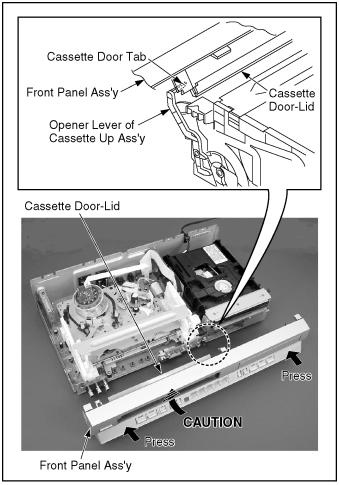


Fig. C4

3. Removal of Front Jack C.B.A. from Bottom Cover.

- a. Remove the screw (501).
- b. Releasing the rib, and remove the Front Jack C.B.A.

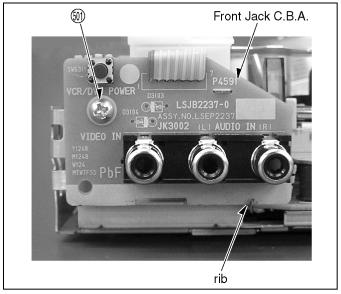


Fig. C5

Removal of Operation LED C.B.A. from Bottom Cover.

a. Releasing the tab and 2 ribs, and remove the Operation LED C.B.A.

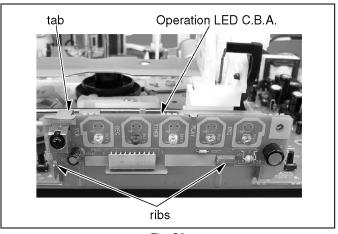


Fig. C6

4. Installation of Mechanism Chassis onto Main C.B.A.

a. Make sure the Mode Select SW. on the Main C.B.A. is in **EJECT** position. If not, rotate the Mode Select SW. until the alignment projection is in the **EJECT** Position.

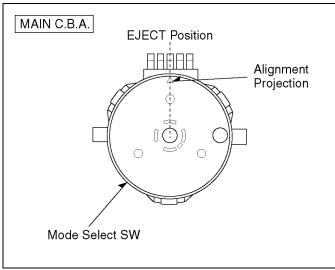


Fig. C7

b. Make sure the phase hole of the Main Cam Gear on the bottom side of Mechanism Unit is in **EJECT** position.

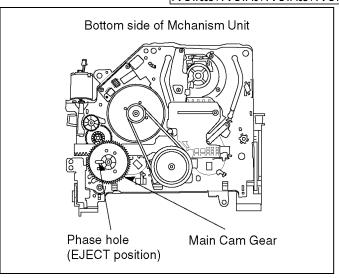


Fig. C8

c. Install the Mechanism Chassis straight onto the Main C.B.A. so that the Photo transistor Unit (712) clears the hole in the Mechanism Chassis and that 3 Connectors (P5001, P4001, P6201) are aligned and seated securely.

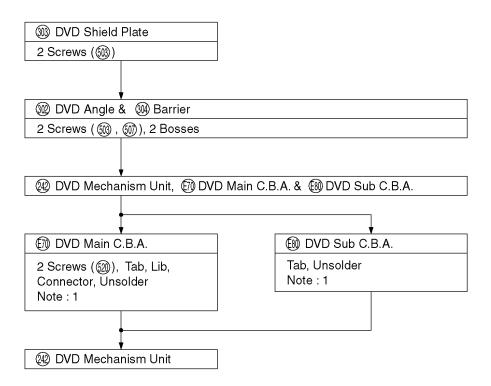
5.2. MECHANISM SECTION

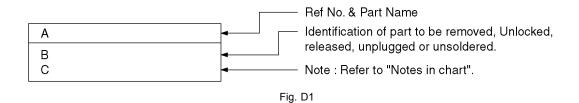
Refer to the Service Manual for R4-Mechanism Chassis for PV-Model (Order No. MKE0401000C1).

5.3. DVD SECTION

5.3.1. Disassembly Flowchart

Perform disassembly procedures in the order described in the "Disassembly Flowchart" Shown below. When reassembling, use the reverse procedure.





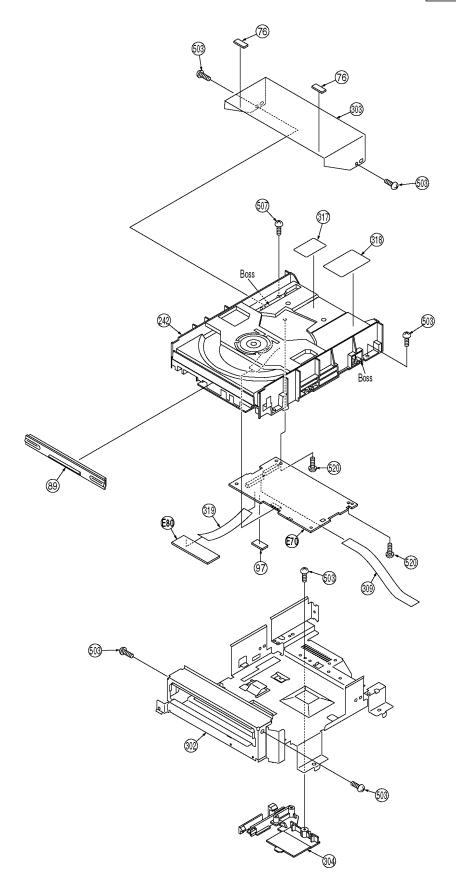


Fig. D2

Notes in chart (DVD Section) 5.3.1.1.

1. Removal of DVD Sub C.B.A.

- a. Remove solder portions "a, b, c, d, e, f, g, h, i, j" on the DVD Sub C.B.A.
- b. Remove the DVD Sub C.B.A. while releasing the Locking Tab.

Installation of DVD Main C.B.A. and DVD Sub C.B.A.

- a. Confirm that the Lever A is positioned as shown, and install the DVD Sub C.B.A. with the Locking Tab and 2 bosses.
- b. Install the DVD Main C.B.A. with the Locking Tab and

the rib.

- c. Pass the leads through the slots A and B.
- d. Solder portions "a, b, c, d, e, f, g, h, i, j" on the C.B.A. Note:

Solder portions "h" and "i" while pushing down the DVD Sub C.B.A. securely.

- e. Connect the F.F.C.s to Connectors P8901 on the DVD Main C.B.A.
- f. Tighten the 2 Screws (520).

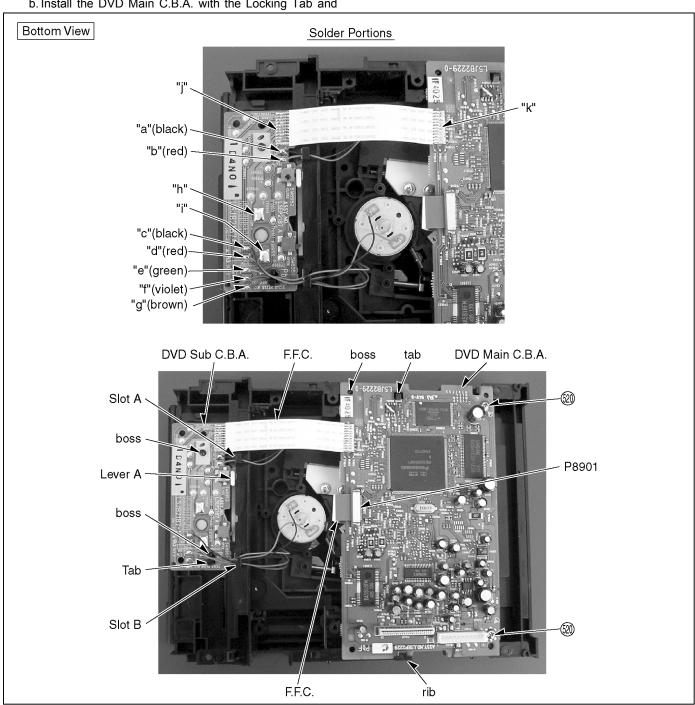


Fig. D3

ADJUSTMENT PROCEDURES

MECHANICAL ADJUSTMENT 6.1.

Refer to the Service Manual for R4-Mechanism Chassis for PV-Model (Order No. MKE0401000C1).

6.2. **ELECTRICAL ADJUSTMENT**

6.2.1. **TEST EQUIPMENT**

To do all of these electrical adjustments, the following equipment is required.

1. Dual-Trace Oscilloscope

Voltage Range: 0.001 V to 50 V/Div. Frequency Range: DC to 50 MHz

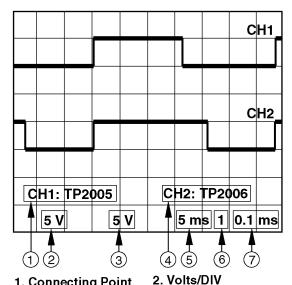
Probes: 10:1, 1:1

2. Isolation Transformer (Variable)

3. VHS Alignment Tape (VFMS0003H6)

4. TV monitor

6.2.2. HOW TO READ THE ADJUSTMENT **PROCEDURES**



1. Connecting Point

3. Volts/DIV 5. Time/DIV

4. Connecting Point

7. Time/DIV for Delay

6. Trigger Channel of the Scope 1: CH1

2: CH2

Fig. E1

6.2.3. **EVR (Electronic Variable Register)** ADJUSTMENT WITH THE REMOTE CONTROL

This unit has electronic technology using I²C Bus concept.

The PG SHIFTER ADJUSTMENT is adjusted by using "On Screen Displays" and the remote control instead of adjusting mechanical controls (VR).

6.2.4. PG SHIFTER ADJUSTMENT

Purpose: Determine the Video Head Switching Point during

May cause Head Switching Noise and/or Vertical

Symptom of Misadjustment: Jitter

Test Point : TP3001 (Main C.B.A.), TP6205 (Main C.B.A.)

Specification: $T = 6 H \pm 0.5 H (0.38 ms \pm 0.03 ms)$

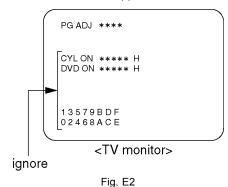
Mode: SP Playback Equipment: Oscilloscope.

VHS Alignment Tape (VFMS0003H6),

TV monitor

1. Insert the VHS Alignment Tape. Enter service mode by pressing and holding FF and CH DOWN buttons on VCR together for more than 5 seconds.

2. Play back SP mode. Then, press 100 button on the remote to enter EVR PG SHIFTER ADJUSTMENT mode. PG ADJUSTMENT screen will appear on the TV Monitor.



- 3. Connect the channel-1 scope probe to TP3001 and the channel-2 scope probe to TP6205. Used TP6205 as a trigger
- 4. Adjust value so that the trailing edge of the head switching pulse is placed 6 H \pm 0.5 H (0.38 ms \pm 0.03 ms) before the start of the vertical sync pulse by pressing CH UP and CH DOWN buttons on the remote.

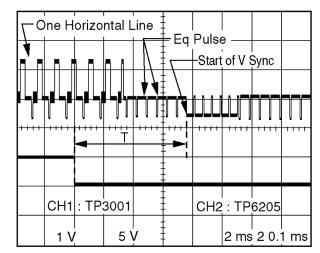
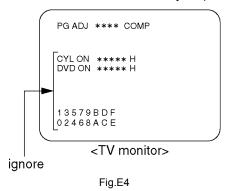


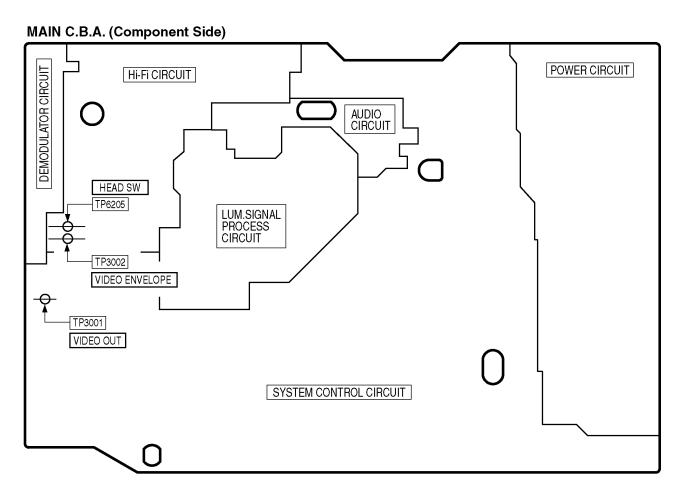
Fig. E3

5. After adjustment is completed, press REC button on the remote. Then " COMP " will appear on the TV monitor and adjusted value will be written to Memory IC (IC6004).



6. Press STOP button on the remote to release from EVR PG SHIFTER ADJUSTMENT MODE.

6.3. TEST POINTS AND CONTROL LOCATION



Test point information

☐→: Test point with a jumper wire across a hole in C.B.A.

7.1. SCHEMATIC DIAGRAM & CIRCUIT BOARD LAYOUT NOTES

1. Important safety notice

Components identified by the sign have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

2. Do not use the part number shown on this drawing for ordering.

The correct part number and part value is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

5. Test point information

- : Test point with no test pin.
- :Test point with a component lead on the foil side.

Schematic Diagram Notes

Indication for Zener Voltage of Zener Diodes
 The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to,

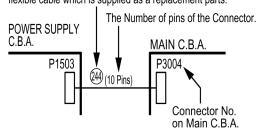
in other words, its counter part.

Use the interconnection schematic diagram to find the connection between associated connectors.

Example:

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts.



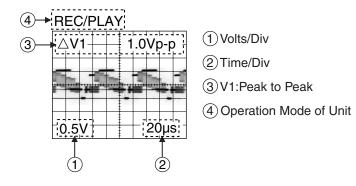
3. Parts marked "PT" are not used in any models included in this service model.

Example: |\(\bar{C6011} \frac{1}{1} \\ \bar{C6014} \\ \bar{T} \\ \cdot \ \PT \\ \cdot \ \\ \PT \\ \ext{T} \\ \ext{PT} \\ \ext{T} \\ \ext{PT} \\ \ext{T} \\ \ext{T} \\ \ext{PT} \\ \ext{T} \\ \ext{T} \\ \ext{PT} \\ \ext{T} \\ \ext{T}

4. Jumper wires are used for WA10, WA5 etc and these are not supplied as replacement parts.

Signal Waveform Note

How to read Signal Waveform



Voltage Chart Note

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

Circuit Board Layout Note

Circuit Board Layout shows components installed for various models.

For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

NOTE:

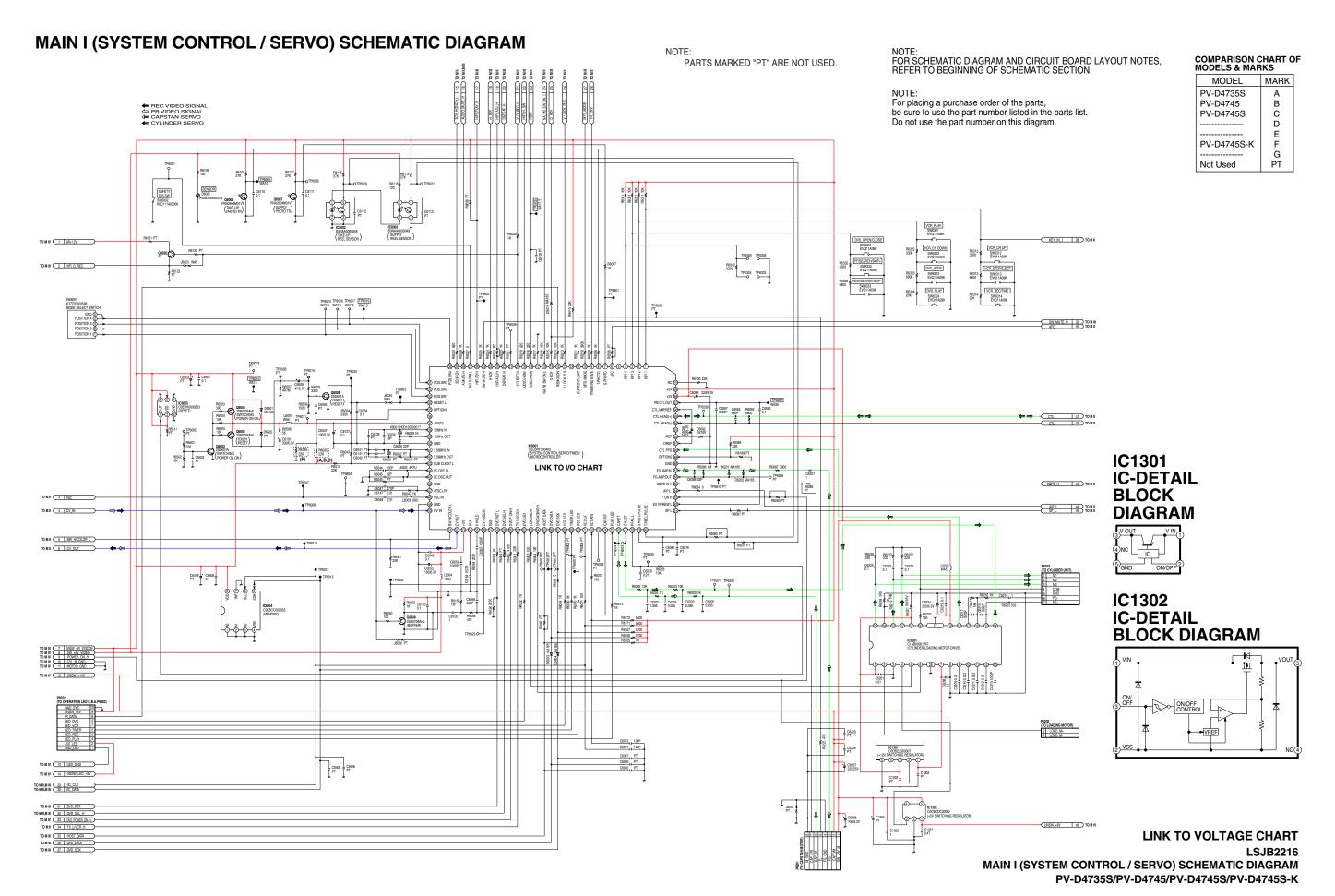
Circuit Board Layout includes components which are not

Model No. Identification Mark

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G
Not Used	PT

Note: Refer to item 3 of Schematic Diagram Notes for mark "PT".

7.2. MAIN SCHEMATIC DIAGRAMS

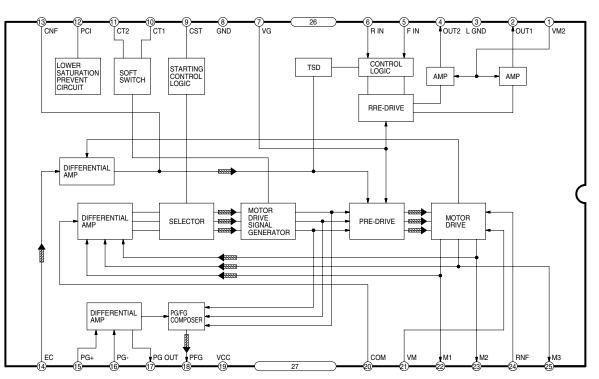


I/O CHART OF IC6001

Pin No.	Signal Name	I/O	Description	Pin No.	I Signal Nama	I/O	Description
	KEY 1	1	Input terminal for the KEY OPERATION DATA 1.	51	BW H/COLOR L	1	BW: "High" COLOR: "Low"
2	KEY 2	1	Input terminal for the KEY OPERATION DATA 2.	52	CV OUT	0	Output terminal for COMPOSITE VIDEO signal.
	KEY 3	Ι	Input terminal for the KEY OPERATION DATA 3.	53	+5V (OSD)	-	Power supply terminal for OSD.
	KEY 4	1	Input terminal for the KEY OPERATION DATA 4.	54	HLF	Ι	LPF connection terminal for slicer.
	NC	-	Not used.	55	V HOLD	1	Capacitor connection terminal of the Reference voltage generator
	AFC	1	Input terminal for S-CURVE of Tuner AFC at channel selecting.				circuit for the slicer.
	S PHOTO	Ι	Input terminal for the Tape End sensor detection.	56	CV IN (EDS)	1	COMPOSITE VIDEO signal input terminal for the slicer.
	T PHOTO	1	Input terminal for the Tape Beginning sensor detection.	57	NUA (GND)	-	Connected to the GND.
	TRACKING ENV.	1	Input terminal for the VIDEO ENVELOPE signal.	58	DVD RST L	0	DVD reset signal.
0	MTS MODE	1	Input terminal for the MTS MODE detection.	59	DVD SEL H	0	Output terminal for DVD/VCR select signal.
1	CURRENT LIMIT	0	Control terminal for the CAPSTAN CURRENT LIMIT.	60	DVD POWER ON H	0	DVD POWER ON: "High"
2	NC	-	Not used.	61	TV L/VCR H	0	TV: "Low" VCR: "High"
3	V LOCK PLS	0	Output terminal for the ARTIFICIAL V-SYNC.	62	DVD LED	0	Output terminal for the DVD LED drive signal.
4	REMOCON	1	Input terminal for the REMOTE CONTROLLER OPERATION DATA.	63	LOADING H	0	LOADING MOTOR control terminal.
5	D RDY	1	DVD UNIT READY signal for serial communication with DVD.	64	UNLOADING H	0	LOADING MOTOR control terminal.
ô	NA PB SW ON L	0	Recording control signal for the Linear Audio.	65	HOST DATA	0	SERIAL DATA output for DVD.
7	NC	-	Not used.	66	DVD DATA	Ι	SERIAL DATA input for DVD.
3	VIDEO H.SW	0	Output terminal for the VIDEO HEAD SWITCHING signal.	67	DVD SCK	I	SERIAL CLOCK input for DVD.
9	AUDIO H.SW	0	Output terminal for the HiFi AUDIO HEAD SWITCHING signal.	68	VCR LED	0	Output terminal for the VCR LED drive signal.
0	V D REC H	0	VIDEO DELAY REC: "High"	69	TIMER LED	0	Output terminal for the TIMER LED drive signal.
1	NC	-	Not used.	70	REC LED	0	Output terminal for the REC LED drive signal.
2	DEFEAT H	0	Output terminal for muting at channel selecting.	71	IIC CLK	0	Serial communication terminal (IIC CLOCK) for VIDEO IC/
3	HIFI ADJ H	0	During HIFI VCO adjustment: "High"				FM AUDIO IC/EEPROM/TUNER.
4	H RDY	0	HOST READY signal for serial communication with DVD.	72	IIC DATA	I/O	Serial communication terminal (IIC DATA) for VIDEO IC/
5	SW MUTE H	0	Output terminal for switching MUTE signal.				FM AUDIO IC/EEPROM/TUNER.
6	HIFI PB H	I	HIFI PLAYBACK:"High" NORMAL PLAYBACK:"Low"	73	NC	-	Not used.
7	NO S TAB L	Ι	Input terminal for the SAFETY TAB detection.	74	CAP R/F	0	The rotation direction control terminal of the CAPSTAN driver.
8	A MUTE H	0	AUDIO MUTING: "High"	75	PLAY LED	0	Output terminal for the PLAY LED drive signal.
9	3CH Hiz/4CH L	0	CH3: "Hiz" CH4: "Low"	76	CAP ET	0	CAPSTAN MOTOR control terminal.
0	POS. SW4	1	Input terminal for the MODE SELECT SW POSITION 4.	77	CYL ET	0	CYLINDER MOTOR control terminal.
1	POS. SW3	1	Input terminal for the MODE SELECT SW POSITION 3.	78	P FAIL L	Ι	Input terminal for the POWER FAILAR detection.
2	POS. SW2	Ι	Input terminal for the MODE SELECT SW POSITION 2.	79	S REEL PULSE	I	Input terminal for the SUPPLY REEL PULSE.
3	POS. SW1	Ι	Input terminal for the MODE SELECT SW POSITION 1.	80	T REEL PULSE	Ι	Input terminal for the TAKE-UP REEL PULSE.
4	RESET L	1	Input terminal for the RESET: "Low".	81	SP L	0	REC/PLAY MODE: SP = "Low"
5	OPTION 1	Ι	Option terminal 1	82	EX FF/REW L	0	Control signal filter select terminal in FF/REW mode.
6	NC	-	Not used.	83	P ON H	0	ON/OFF control terminal for the VCR POWER.
7	+5V (D)	-	VCC (5V) for Digital port.	84	AIP L	0	Simplified AI PLAYBACK ON/OFF control.
3	12MHz IN	Ι	Main clock (12MHz) OSC input terminal.	85	SQPB IN H	I	Input terminal for the S-VHS PLAYBACK detection.
9	12MHz OUT	0	Main clock (12MHz) OSC output terminal.	86	FG AMP OUT	0	Output terminal for the CAPSTAN FG AMP signal.
)	GND (OSC)	-	Digital GND for OSC circuit.	87	FG AMP IN	Ι	Input terminal for the CAPSTAN FG AMP signal.
1	3.58MHz IN	Ι	Not used.	88	GND (A)	-	GND for Analogue circuit.
2	3.58MHz OUT	0	Not used.	89	OPTION 2	Ι	Option terminal 2
3	SUB CLK ST L	Ι	+5V fix.	90	CYL PFG	I	Input terminal for the CYLINDER PG/FG.
4	LC OSC IN	Ι	Input terminal of the LC Oscillation (For OSD dot clock).	91	OREF	0	1/2 VDD reference voltage output terminal for the Analogue AMP.
5	LC OSC OUT	0	Output terminal of the LC Oscillation (For OSD dot clock).	92	IREF	Ι	1/2 VDD reference voltage input terminal for the Analogue AMP.
6	NUB (GND)	-	Connected to the GND.	93	NC	-	Not used.
7	4FSC LPF	Ι	OSC Filter connection terminal for Internal sync generator.	94	CTL HAED (-)	1/0	terminal for the CONTROL HEAD (-).
8	FSC IN	I	Sub carrier (FSC) input terminal for sync generator.	95	CTL HAED (+)	1/0	**
	GND (OSD)	-	GND terminal for OSD circuit.	96	CTL AMP REF	Ι	Capacitor connection terminal for reference of the CONTROL AN
0	CV IN	1	Input terminal for COMPOSITE VIDEO signal.	97	PB CTL OUT	0	Output terminal for the CONTROL AMP.
			1 .	98	+5V (A)	į.	Power supply terminal for Analogue AMP.
				99	+5V (AD)	-	Reference power supply terminal.
				-	NC		Not used.

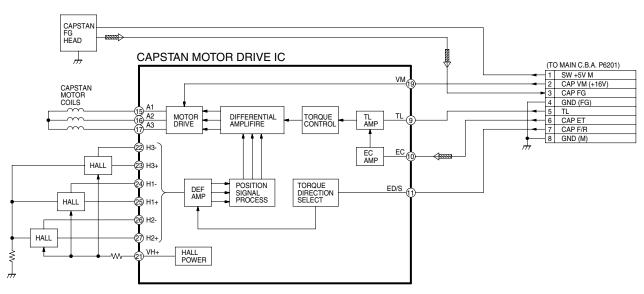
IC6201 CYLINDER/LOADING MOTOR DRIVE IC-DETAIL BLOCK DIAGRAM

◆SSS CYLINDER SERVO



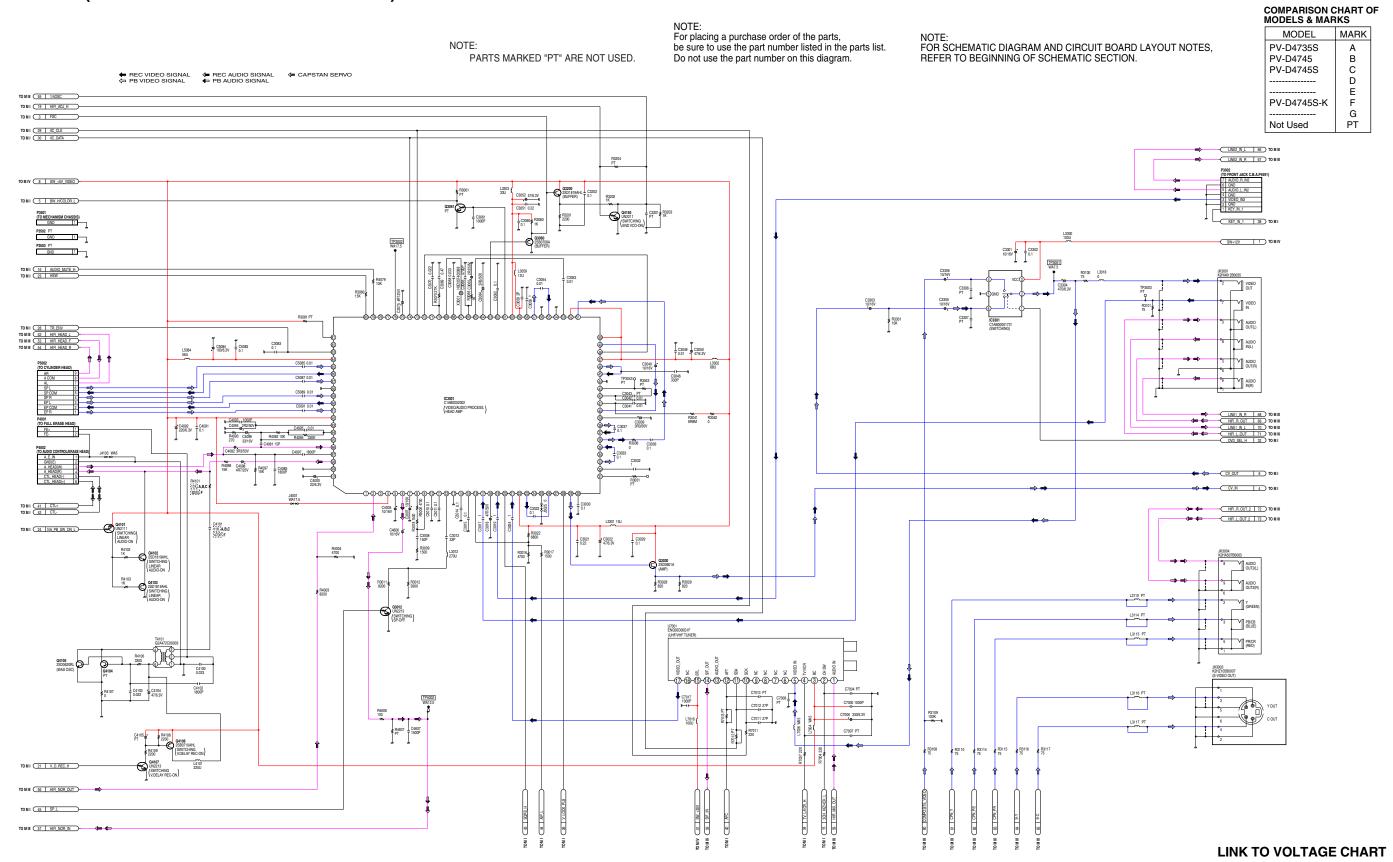
CAPSTAN MOTOR ASS'Y BLOCK DIAGRAM

NOTE: CAPSTAN MOTOR ASS'Y IS SUPPLIED AS A UNIT ONLY.



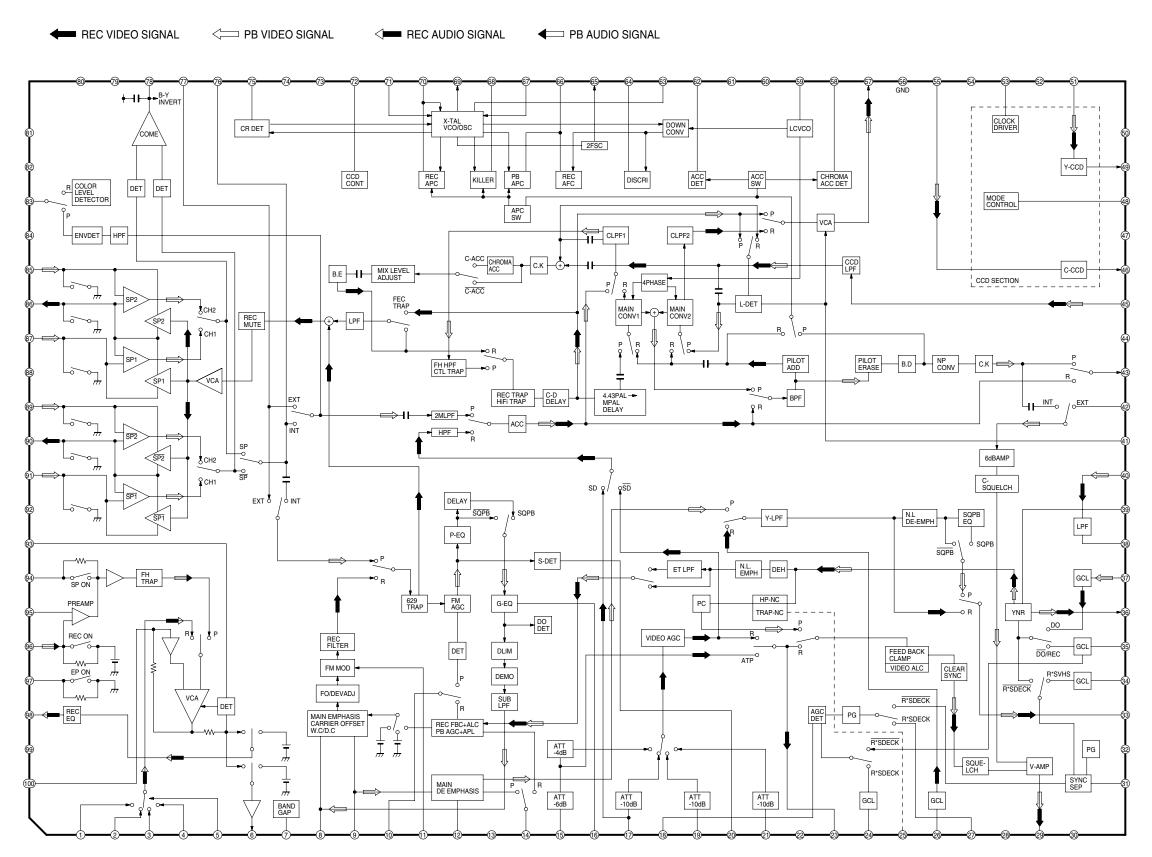
I/O CHART OF IC6001
IC6201 IC-DETAIL BLOCK DIAGRAM
CAPSTAN MOTOR ASS'Y BLOCK DIAGRAM
PV-D4735S/PV-D4745/PV-D4745S-K

MAIN II (VIDEO SIGNAL PROCESS / AUDIO) SCHEMATIC DIAGRAM



LSJB2216
MAIN II (VIDEO SIGNAL PROCESS / AUDIO) SCHEMATIC DIAGRAM
PV-D4735S/PV-D47455/PV-D4745S-K

IC3001 VIDEO/AUDIO SIGNAL PROCESS/HEAD AMP IC-DETAIL BLOCK DIAGRAM

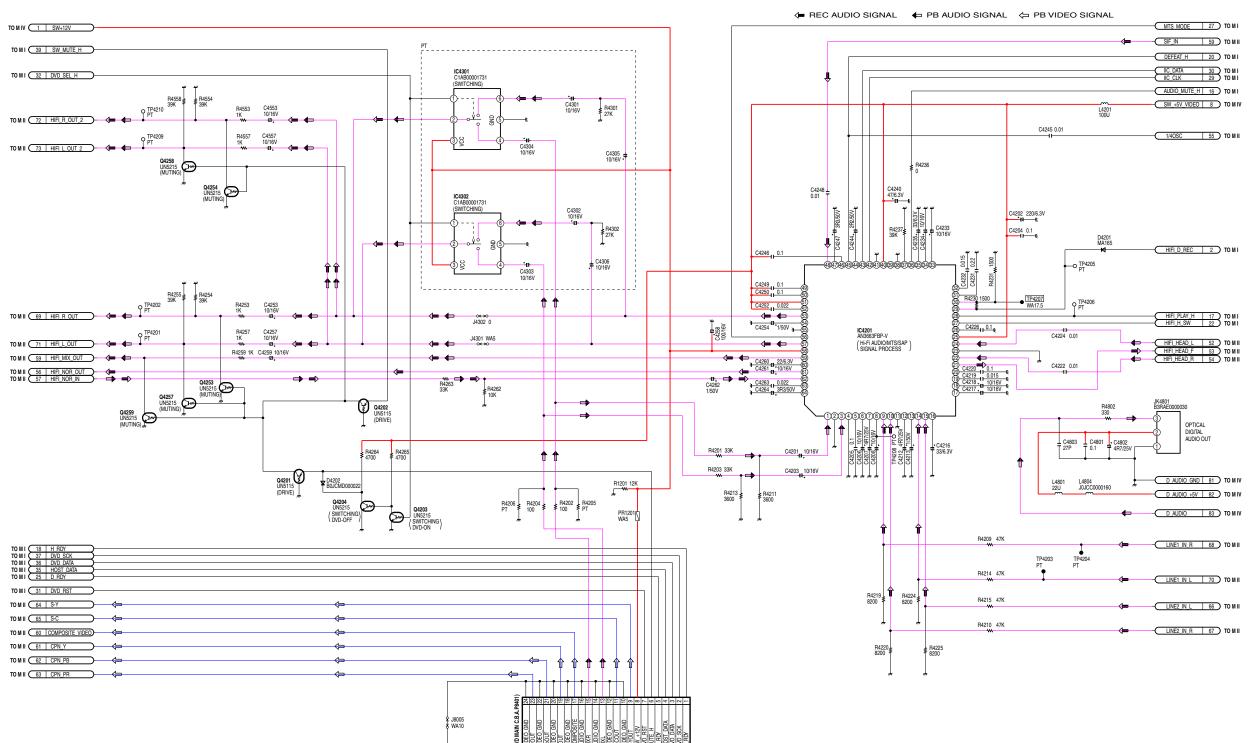


MAIN III (Hi-Fi) SCHEMATIC DIAGRAM

NOTE:
PARTS MARKED "PT" ARE NOT USED.

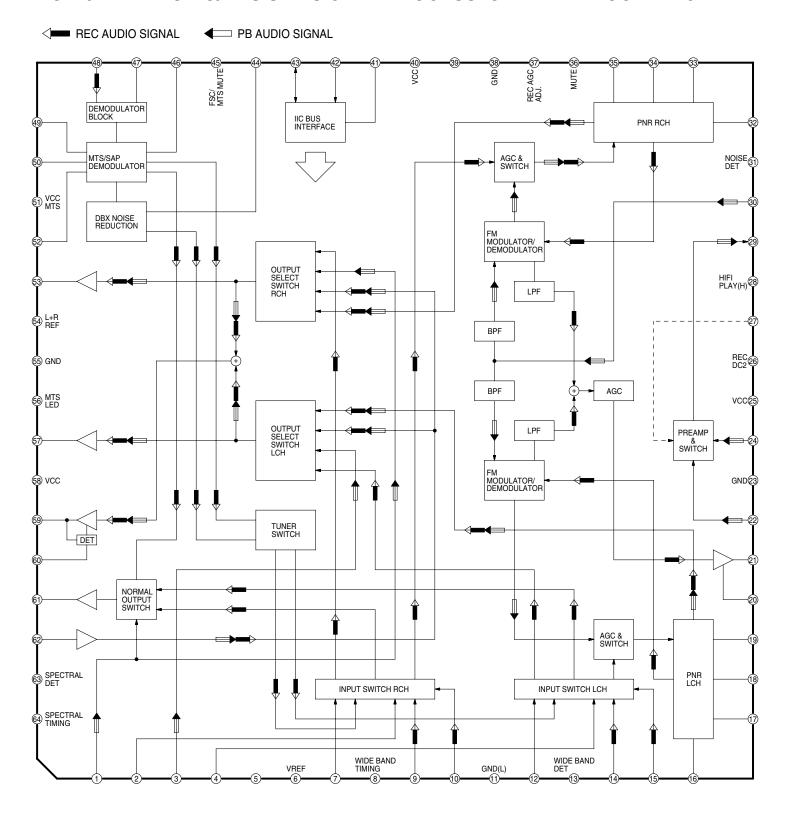
NOTE:
For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



LINK TO VOLTAGE CHART
LSJB2216
MAIN III (Hi-Fi) SCHEMATIC DIAGRAM
PV-D4735S/PV-D4745S/PV-D4745S-K

IC4201 Hi-Fi AUDIO/MTS SAP SIGNAL PROCESS IC-DETAIL BLOCK DIAGRAM



MAIN IV (POWER SUPPLY) SCHEMATIC DIAGRAM

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 3.0A 125V/250V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME 3.0A 125V/250V TYPE 3.0A 125V/250V

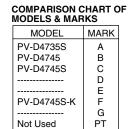
IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

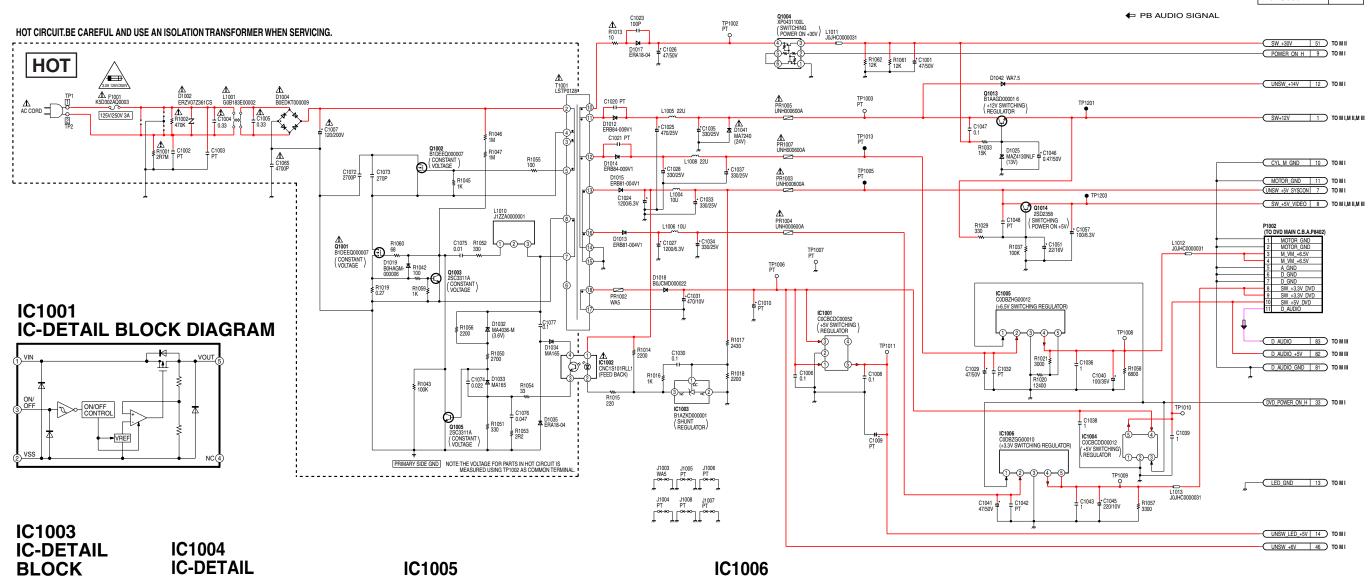
For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:

PARTS MARKED "PT" ARE NOT USED.

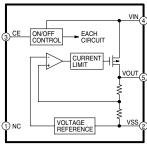




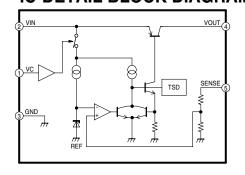




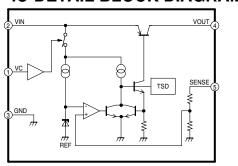




IC-DETAIL BLOCK DIAGRAM



IC-DETAIL BLOCK DIAGRAM

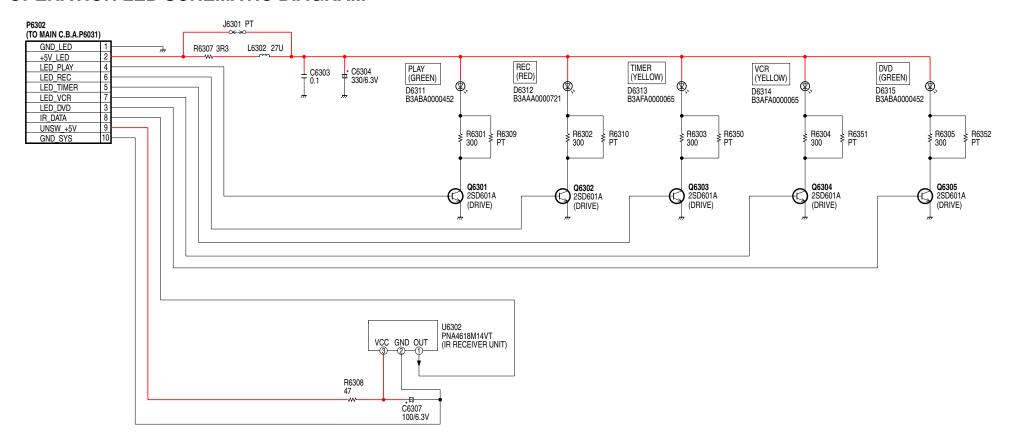


LINK TO VOLTAGE CHART

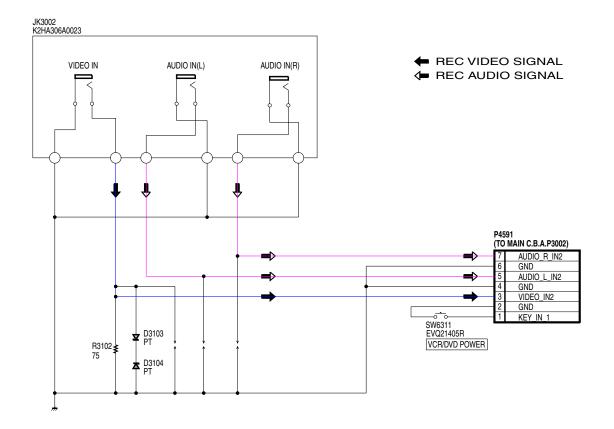
MAIN IV (POWER SUPPLY) SCHEMATIC DIAGRAM PV-D4735S/PV-D4745/PV-D4745S/PV-D4745S-K

OPERATION LED/ FRONT JACK SCHEMATIC DIAGRAMS

OPERATION LED SCHEMATIC DIAGRAM



FRONT JACK SCHEMATIC DIAGRAM



NOTE:

PARTS MARKED "PT" ARE NOT USED.

NOTE:
For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

PARTS MARKED "PT" ARE NOT USED.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

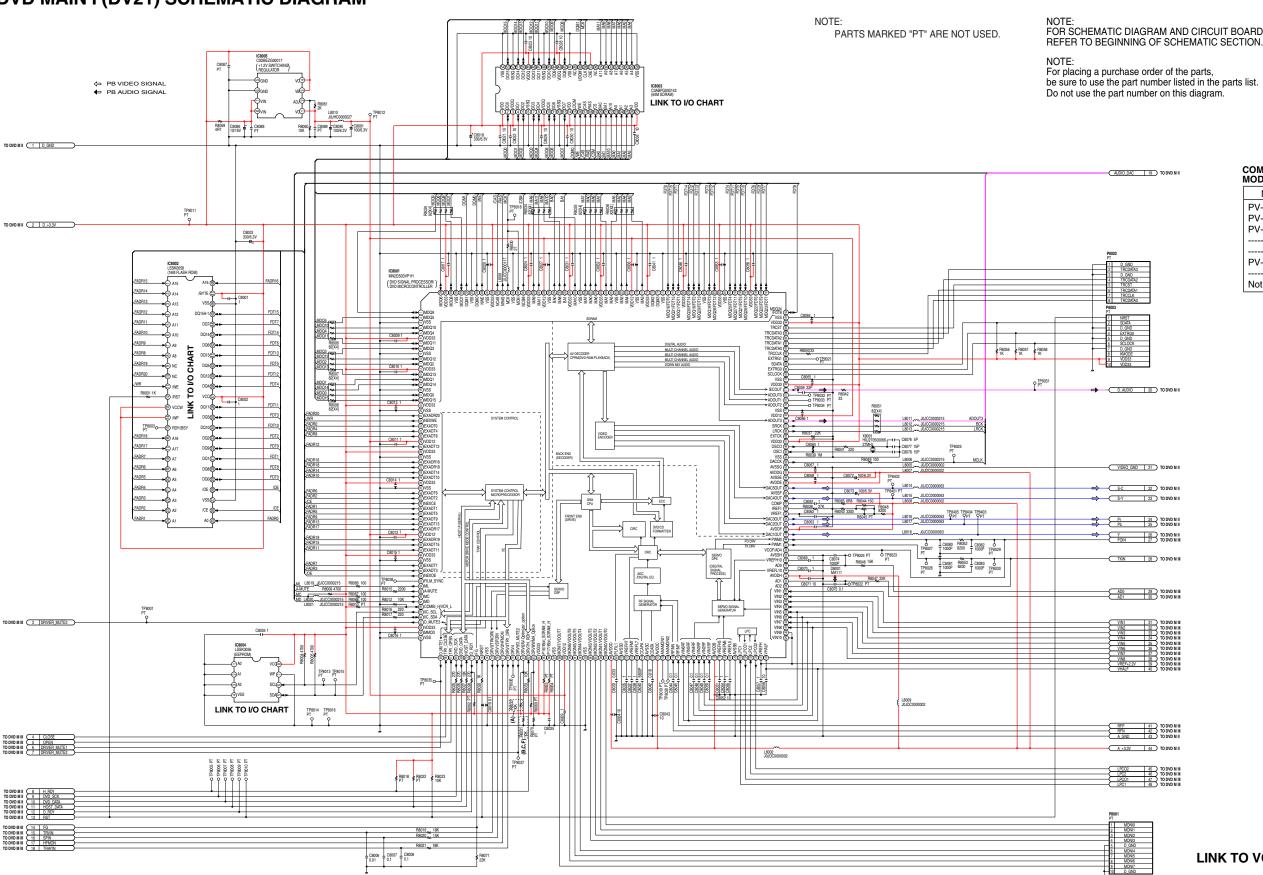
LINK TO VOLTAGE CHART

LSJB2230 **OPERATION LED SCHEMATIC DIAGRAM** FRONT JACK SCHEMATIC DIAGRAM

PV-D4735S/PV-D4745/PV-D4745S/PV-D4745S-K

7.4. DVD MAIN/ DVD SUB SCHEMATIC DIAGRAMS

DVD MAIN I (DV21) SCHEMATIC DIAGRAM



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

Do not use the part number on this diagram.

COMPARISON CHART OF

MODELS & MARKS							
MODEL	MARK						
PV-D4735S	Α						
PV-D4745	В						
PV-D4745S	С						
	D						
	E						
PV-D4745S-K	F						
	G						
Not Used	PT						

LINK TO VOLTAGE CHART

DVD MAIN I (DV21) SCHEMATIC DIAGRAM PV-D4735S/PV-D4745/PV-D4745S/PV-D4745S-K

I/O CHART OF IC8002

Pin No.	I/O	Signal Name	Description
1	ı	A15	Memory address 16
2	ı	A14	Memory address 15
3	ı	A13	Memory address 14
4	ı	A12	Memory address 13
5	- 1	A11	Memory address 12
6	I	A10	Memory address 11
7	I	A9	Memory address 10
8	ı	A8	Memory address 9
9	I	NC	Memory address 20
10	1	NC	Memory address 21
11	ı	/WE	Write enable : low
12	-	/RST	Reset : low
13	ı	VCCW	+3.3V
14	-	WP	(Not used)
15	ı	RDY/BSY	DVD Ready (Busy : low)
16	I	A18	Memory address 19
17	ı	A17	Memory address 18
18	I	A7	Memory address 8
19	ı	A6	Memory address 7
20	ı	A5	Memory address 6
21	ı	A4	Memory address 5
22	ı	A3	Memory address 4
23	ı	A2	Memory address 3
24	I	A1	Memory address 2
25	I	A0	Memory address 1
26	ı	/CE	Memory chip select : low
27	-	VSS	Ground
28	ı	/OE	Output enable : low
29	I/O	DQ0	Memory data 0
30	I/O	DQ8	Memory data 8
31	I/O	DQ1	Memory data 1
32	I/O	DQ9	Memory data 9
33	I/O	DQ2	Memory data 2
34	I/O	DQ10	Memory data 10
35	1/0	DQ3	Memory data 3
36	1/0	DQ11	Memory data 11
37	ı	VCC	+3.3V
38	1/0	DQ4	Memory data 4
39	1/0	DQ12	Memory data 12
40	1/0	DQ5	Memory data 5
41	1/0	DQ13	Memory data 13
42	1/0	DQ6	Memory data 6
43	1/0	DQ14	Memory data 14
44	1/0	DQ7	Memory data 7
45	1/0	DQ15A-1	Memory data 7
46	-	VSS	Ground
47	1	/BYTE	+3.3V
48	1	A16	Memory address 16
40	1	1/10	Internety address to

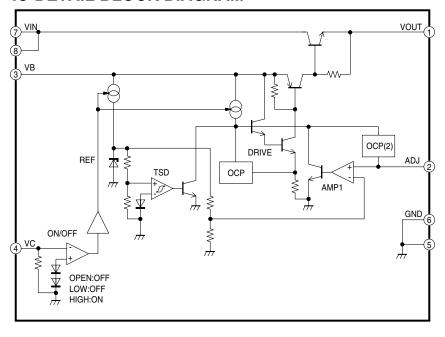
I/O CHART OF IC8003

Pin No.	I/O	Signal Name	Description
1	1/0	VDD	+3.3V
2	1/0	DQ0	SDRAM data 0
3	1/0	VDDQ	+3.3V
4	1/0	DQ1	SDRAM data 1
5	1/0	DQ2	SDRAM data 2
6	-	VSSQ	Ground
7	1/0	DQ3	SDRAM data 3
8	1/0	DQ4	SDRAM data 4
9	1	VDDQ	+3.3V
10	1/0	DQ5	SDRAM data 5
11	I/O	DQ6	SDRAM data 6
12	-	VSSQ	Ground
13	I/O	DQ7	SDRAM data 7
14	1	VDD	+3.3V
15	- 1	LDQM	Data input/output mask
16	I	/WE	Write enable : low
17	ı	/CAS	Column address strobe : low
18	i	/RAS	Row address strobe :low
19	i	/CS	SDRAM chip select : low
20	÷	BA0	Bank address 0
21	i	BA1	Bank address 1
22	<u>'</u>	A10/AP	SDRAM address 10
23	<u> </u>	A10/AP	SDRAM address 10 SDRAM address 0
23	-		
	1	A1	SDRAM address 1
25	<u> </u>	A2	SDRAM address 2
26		A3	SDRAM address 3
27	-	VDD	+3.3V
28	-	VSS	Ground
29	1	A4	SDRAM address 4
30	1	A5	SDRAM address 5
31	Ι	A6	SDRAM address 6
32	- 1	A7	SDRAM address 7
33	Ι	A8	SDRAM address 8
34	Ι	A9	SDRAM address 9
35	Ι	A11	SDRAM address 11
36	-	NC	(Not used)
37	-	CKE	(Not used)
38	Т	CLK	SDRAM clock
39	i	UDQM	Data input/output mask
40	<u> </u>	NC	(Not used)
41	-	VSS	Ground
42	_	DQ8	SDRAM data 8
	1/0		
43	1/0	VDDQ	+3.3V
44	1/0	DQ9	SDRAM data 10
45	I/O	DQ10	SDRAM data 10
46	-	VSSQ	Ground
47	1/0	DQ11	SDRAM data 11
48	1/0	DQ12	SDRAM data 12
49	ı	VDDQ	+3.3V
50	I/O	DQ13	SDRAM data 13
51	I/O	DQ14	SDRAM data 14
52	-	VSSQ	Ground
53	1/0	DQ15	SDRAM data 15
54	-	VSS	Ground

I/O CHART OF IC8004

Pin No.	I/O	Signal Name	Description
1	-	A0	(Not used)
2	-	A1	(Not used)
3	-	A2	(Not used)
4	-	VSS	Ground
5	I/O	SDA	Serial data
6	- 1	SCL	Serial clock
7	-	WP	Write protect
8	ı	VCC	+3.3V

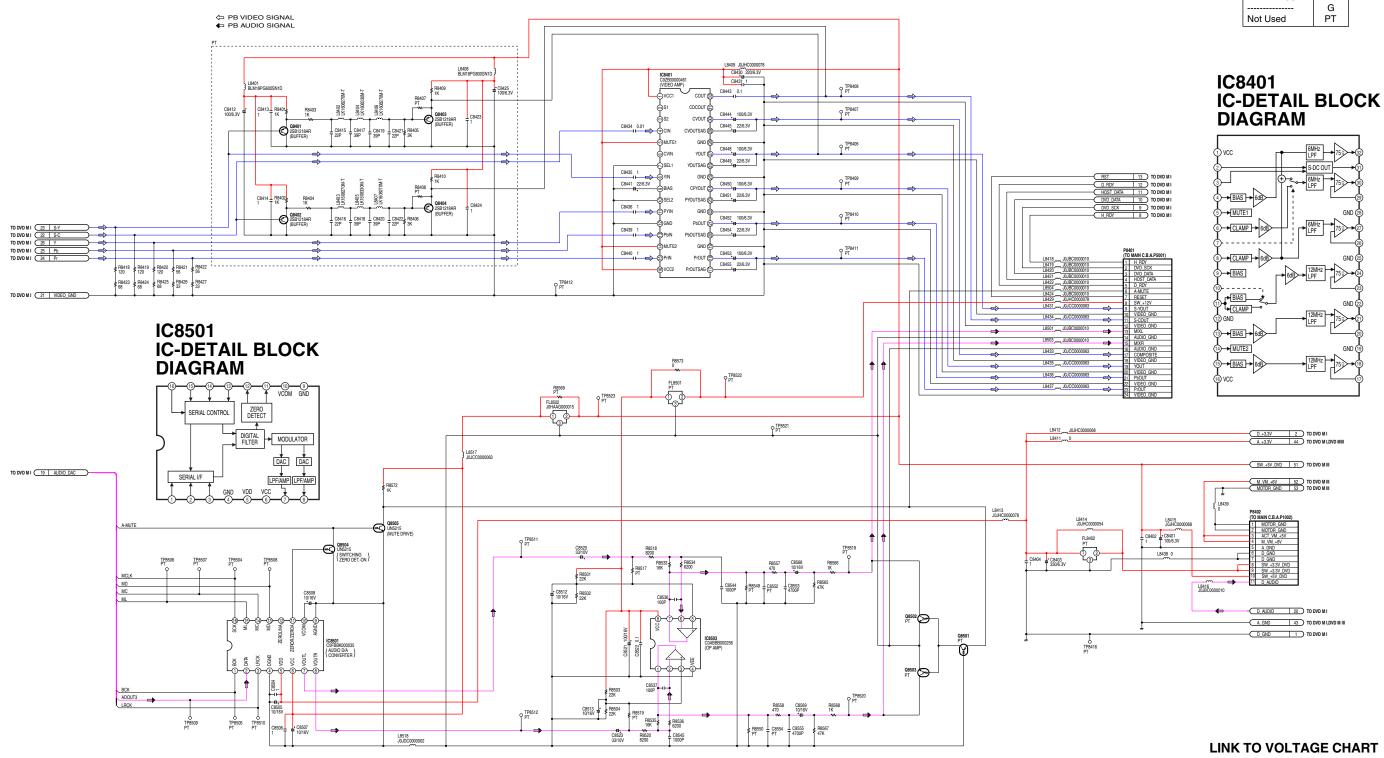
IC8005 IC-DETAIL BLOCK DIAGRAM



DVD MAIN II (VIDEO/AUDIO) SCHEMATIC DIAGRAM

NOTE: PARTS MARKED "PT" ARE NOT USED. NOTE:
For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



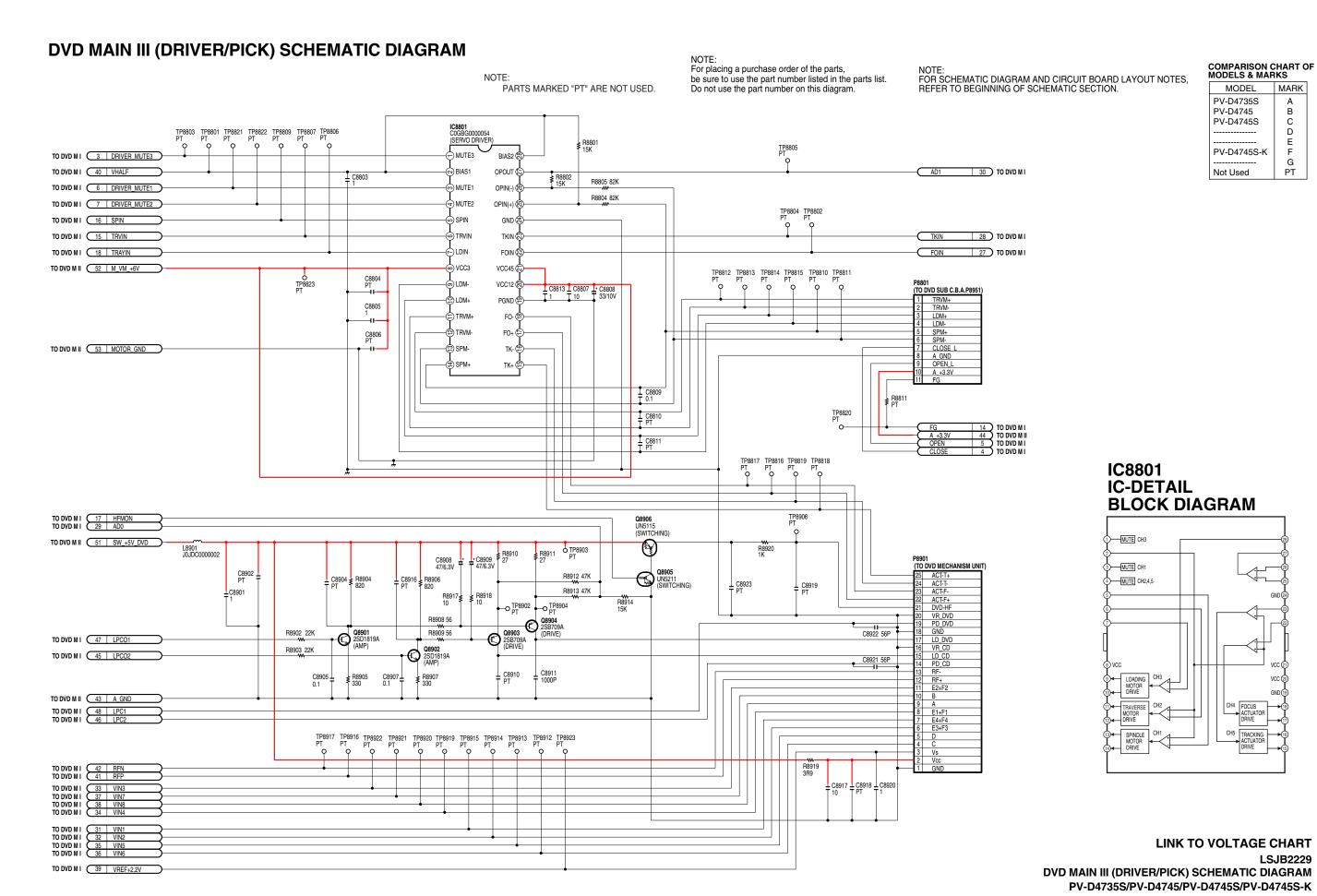
LSJB2229 DVD MAIN II (VIDEO/AUDIO) SCHEMATIC DIAGRAM PV-D4735S/PV-D4745S/PV-D4745S-K

С

D Ε

F

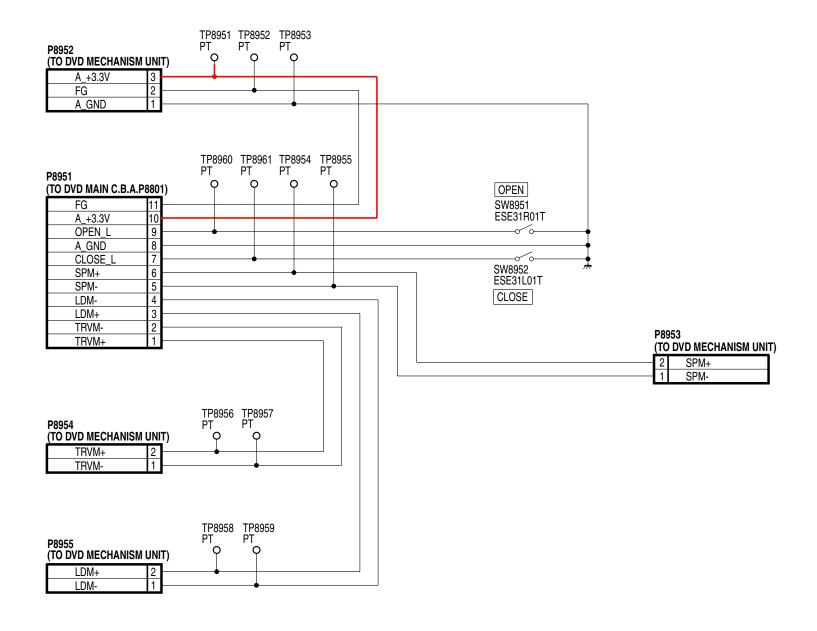
G PT



DVD SUB SCHEMATIC DIAGRAM

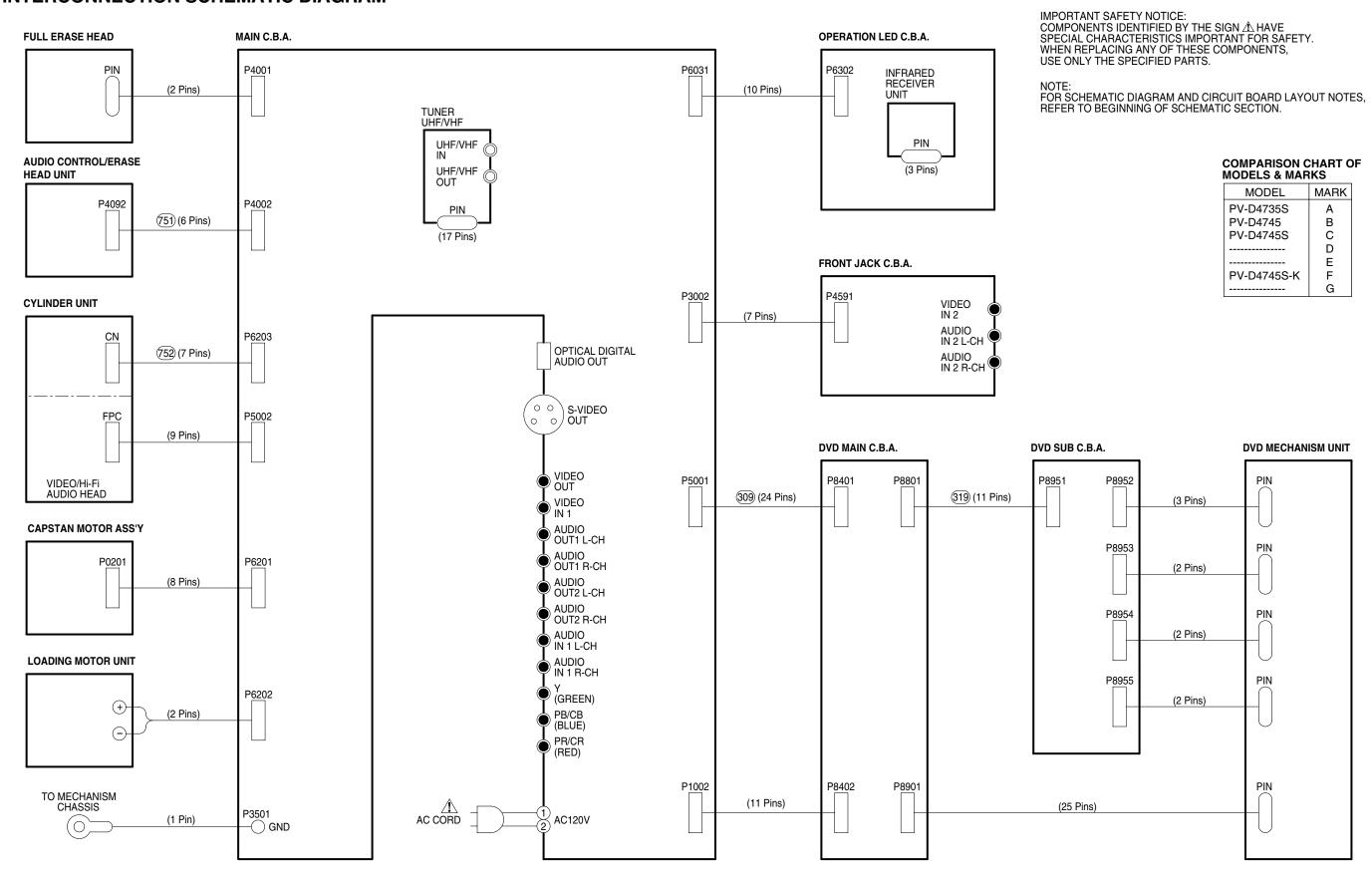
NOTE:
PARTS MARKED "PT" ARE NOT USED.

For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.



7.5. INTERCONNECTION SCHEMATIC DIAGRAM

INTERCONNECTION SCHEMATIC DIAGRAM



INTERCONNECTION SCHEMATIC DIAGRAM PV-D4735S/PV-D4745/PV-D4745S/PV-D4745S-K

7.6. VOLTAGE CHART

MAIN C.B.A. (SYSTEM CONTROL/SERVO SECT

MAIN (J.B.A.	(515	I EIVI (JONIF	IUL/S	EHVU
\MODE PINNO.	REC	PLAY		MODE PINNO.	REC	PLAY
IC1301				43	5.2	5.2
1	17.3	17.3		44	3.1	3.1
2	4.9	4.9		45	3.1	3.1
3	12.1	12.1		46		
4					0	0
	0	0		47	1.5	1.5
5	0	0		48	2.3	2.3
IC1302				49	0	0
1	6.1	6.1		50	1.6	1.6
2	0	0		51	0	0
3	4.9	4.9		52	1.5	1.5
4	0	0		53	5.0	5.0
5	5.0	5.0		54	2.1	2.1
IC6001				55	2.5	2.3
1	5.2	5.2		56	1.8	1.8
2	5.2	5.2		57	0	0
3	5.2	5.2		58	0	0
4	5.2	5.2		59	0	0
5	-	-		60	0	0
6	2.5	2.5		61	5.1	5.1
7	5.1	5.1		62	0	
						0
8	5.1	5.1		63	0	0
9	3.3	4.0		64	0	0
10	0	0		65	0	0
11	4.9	4.9		66	5.2	5.2
12	-	-		67	5.2	5.2
13	5.2	0		68	4.9	4.9
14	5.2	5.1		69	0	0
15	5.2	5.2		70	4.9	0
16	5.2	0		71	3.3	3.2
17	0	0		72	3.0	2.9
18	2.6	2.6		73	0	0
19	0	2.6		74	0	0
20	5.2	0		75	0	4.9
21	5.1	5.1		76	2.5	2.5
22	0	0		77	2.5	2.5
23	5.1	5.1		78	5.2	5.2
24	0	0		79	4.7	4.7
25	0	0		80	3.8	3.8
26	4.0	4.1		81	0	0
27	2.0	2.0		82	0	0
28	0	0		83	5.1	5.1
29	4.7	4.7		84	2.0	2.0
30	0	0		85	0	0
31	5.1	5.1		86	2.6	2.6
32	5.1	5.1		87	2.6	2.6
33	0	0		88	0	0
34	5.2	5.2		89	5.2	5.2
35	5.2	5.2		90	1.4	1.4
36	-	-		91	2.6	2.6
37	5.2	5.2		92	2.6	2.6
38				93	-	-
				93	2.4	2.4
39	-	-				
40	0	0		95	2.7	2.6
41	-	-		96	2.6	2.6
42				97	2.6	2.6

ΓΙΟΝ)			
MODE PINNO	REC	PLAY	
98	5.2	5.2	
99	5.2	5.2	1
100	0	0	
IC6002			
1	1.2	1.2	
2	0	0	-
3	0	0	-
4	4.7	4.7	
IC6003	7.7	7.7	
1	2.4	2.4	
3	1.2	1.2	1
4	5.1	5.1	-
	ა. I	J. I	1
IC6004			-
1	0	0	
2	0	0	-
3	0	0	-
4	0	0	
5	3.0	3.0	
6	3.3	3.3	
7	0	0	
8	5.0	5.0	
IC6005			
1	5.2	5.2	
2	5.2	5.2	
3	0	0	1
4	0	0	1
5	5.2	5.2	
6	0	0	1
IC6201			
1	11.9	11.8	
2	1.8	1.8	1
3	0	0	
4	0.3	0.3	
5	0.0	0.0	1
6	0	0	1
7	16.5	16.5	1
8	0	0	-
9	2.8	2.8	1
10	1.6	1.6	1
			1
11	1.6	1.6	1
12 13	0.7	0.7	ł
	1.5	1.5	ł
14	2.5	2.5	
15	2.5	2.5	1
16	2.6	2.6	-
17	2.6	2.6	
18	1.3	1.3	
19	5.0	5.0	
20	3.6	3.6	
21	11.9	11.9]
22	3.6	3.6	
23	3.6	3.6	
24	0	0]
25	3.5	3.5	

MODE	REC	PLAY		MODE	REC	PLAY
NOONI				PINNO.		
26	0	0	1	TP6202	2.5	2.5
27	0	0	1	TP6203	2.5	2.5
26003		_		TP6204	2.5	2.5
E	0	0	1	TP6205	2.6	2.6
C	0.1	0.1		TP6206	2.5	2.5
В	0.7				2.6	2.6
	0.7	0.7		TP6207		
26004		F 0		TP6208	2.6	2.6
E	5.2	5.2		TP6303	0	0
С	5.2	5.2		TP6304	5.1	5.1
В	4.4	4.4		TP6305	5.1	5.1
26005				TP6306	0	0
E	5.2	5.2		TP6801	5.1	5.1
С	5.1	5.1		TP6802	4.0	4.0
В	4.5	4.5		TP6803	5.2	5.2
26006				TP6804	0	0
Е	0	0		TP6805	0	0
С	5.1	5.1]	TP6806	0	0
26007]	TP6807	5.1	0
Е	0	0	1	TP6808	3.3	3.3
С	5.1	5.1	1	TP6810	0	0
26008			1	TP6811	0	0
E	0	0	1	TP6812	5.2	5.2
C	5.2	5.2		TP6813	5.2	5.2
В	0	0		11 0010	0.2	5.2
	- 0	-				
26009	0.0	0.0				
E	2.2	2.2				
С	0	0				
В	1.5	1.5				
P6001	0	0				
P6002	5.2	5.2				
P6003	5.2	5.2				
P6004	0	0				
P6005	5.1	5.1				
P6006	5.1	5.1				
P6007	1.6	1.6				
P6008	1.6	1.6				
P6009	5.1	5.1				
P6010	1.5	1.5				
P6011	5.2	5.2	1			
P6012	3.2	3.2	1			
P6013	3.0	3.0	1			
P6014	0	0				
P6015	0	0				
P6016	5.1	5.1				
P6017	5.1	5.1				
P6018	4.2	4.2				
P6019	0	0				
P6020	5.2	5.2				
P6021	4.2	4.2				
P6023	1.8	1.8				
P6026	0	0				
P6028	0	0				
P6035	5.2	5.2				
P6036	4.8	4.8]			
P6201	2.5	2.5				

MODE	REC	PLAY
PINNO.	0	-/ \
TP6202	2.5	2.5
TP6203	2.5	2.5
TP6204	2.5	2.5
TP6205	2.6	2.6
TP6206	2.5	2.5
TP6207	2.6	2.6
TP6207	2.6	2.6
TP6303	0	0
TP6304	5.1	5.1
TP6305	5.1	5.1
TP6306	0	0
TP6801	5.1	5.1
TP6802	4.0	4.0
TP6803	5.2	5.2
TP6804	0	0
TP6805	0	0
TP6806	0	0
TP6807	5.1	0
TP6808	3.3	3.3
TP6810	0	0
TP6811	0	0
TP6812	5.2	5.2
TP6813	5.2	5.2
- 1		

MAIN C.B.A. (POWER SUPPLY/VIDEO/AUDIO SECTION)

AIN (C.B.A.	(POW	/ER SU	JPPLY.	/VIDE	:O/AUL	IO SE	CTIO	N)						
10DE	STOP		MODE	STOP		MODE	STOP		MODE	STOP	MODE	STOP] <u> </u>	MODE	STOP
NO).			PIN NO.			PIN NO.			PIN NO.		PIN NO.			PIN NO.	
1001			22	5		77	-		24	2.1	2	4.9] [С	5.1
1	6		23	2.3		78	-		25	5	3	32.1] [В	0
2	0		24	-		79	0		26	2.1	4	32.1] [Q4150	
3	6		25	0		80	2.3		27	0	5	0] [E	0
4	0		26	3		81	0		28	4.1	6	0] [С	0
5	5		27	-		82	-		29	1.5	Q1005]	В	5.1
1002			28	0		83	3.4		30	0.8	E	0]	Q4201	
1	5.3		29	2.2		84	5		31	0.1	С	2.1		Е	0
2	4.2		30	2.8		85	2.2		32	2.5	В	0.5		С	-0.6
3	1.2		31	0.4		86	2.2		33	2.5	Q1013			В	0
4	7.3		32	2.4		87	2.2		34	0.7	E	12.4		Q4202	
1003			33	2.1		88	0		35	2.5	С	14.6		E	0
1	2.5		34	-		89	2.2		36	0	В	13		С	-0.6
2	0		35	3		90	2.2		37	1.7	Q1014			В	0
3	3.6		36	2.3		91	2.2		38	0	E	5.2		Q4203	
1004			37	3		92	5.1		39	-	С	5.2		E	0
1	-		38	2.2		93	0.5		40	5	В	5.9	}	С	3.5
2	0		39	1.4		94	2.5		41	0	Q3012		}	B	0
3	0		40	2.1		95	2.5 2.5		42 43	3.6	E C	0	}	Q4204 E	0
5	6 0		41 42	2.8		96 97	2.5		43	2.3	В	0	 	C	0
1005	U		43	2.1		98	2.3		45	0	Q3030	U	 	В	3.5
1	0		43	0		99	0		46	3.3	E	0.9	}	Q4253	3.5
2	8.9		45	3.2		100	2.6		47	2.2	С	5	 	E	0
3	0.9		46	3.2		IC3301	2.0		48	2.2	В	1.5	 	С	0
4	0		47	5		1	0		49	3.4	Q3060	1.5	 	В	-0.6
5	0		48	4.8		2	2.2		50	3.3	E	2.9	l 1	Q4254	-0.0
1006			49	3.2		3	12		51	5	C	0	1 1	E	0
1	0		50	5		4	2.2		52	3.3	В	2.2	1 1	C	0
2	5		51	1.9		5	0		53	6	Q3200		1 1	В	-0.6
3	0		52	5		6	2.6		54	2.5	Е	2.2	i i	Q4257	
4	0		53	2.6		IC4201			55	0	С	5.1	i i	Е	0
5	0		54	0		1	2.5		56	0	В	2.9	i i	С	0
3001			55	2		2	0		57	6	Q4101		1 1	В	-0.6
1	-		56	0		3	2.5		58	12.2	Е	5.1	1 1	Q4258	
2	0		57	2.2		4	0		59	5.9	С	5	i i	Е	0
3	-		58	2.2		5	2.4		60	0.2	В	0] [С	0
4	5.1		59	4.9		6	2.5		61	2.5	Q4102] [В	-0.6
5	2.1		60	4.9		7	2.2		62	2.5	Е	0] [Q4259	
6	2.6		61	3.9		8	0.4		63	2.7	С	0] [Е	0
7	2.8		62	2.3		9	0		64	0.6	В	8.0	[С	0
8	1.9		63	2.2		10	0		Q1001		Q4103			В	-1.1
9	1.9		64	2.3		11	0		S	0	E	0		TP1002	32.1
10	1.9		65	2.3		12	2.2		G	1.9	С	0	1 H	TP1003	14.6
11	2.6		66	2.3		13	2.6		D	155	В	0.8		TP1005	5.2
12	1.8		67	2.2		14	0		Q1002		Q4105		1 H	TP1006	6
13	0		68	1.2		15	0		S	155	E	0	i i	TP1007	0
14	2.7		69	2		16	2.6		G	161	С	2.2	i i	TP1008	0
15	2.7		70	2.7		17	0.8		D	111	В	2.2	i i	TP1009	0
16	2		71	-		18	2.6		Q1003		Q4106	-	1 t	TP1010	0
17	2.8		72	4.9		19	2.5		E	0	E	5.1	t 1	TP1011	5
18	2		73	3.7		20	2.1		С	1.9	С	0.2	• •	TP1013	9
19	2.7		74	3.4		21	2.1		В	0	В	5.1	1 H	TP1201	12.3
20	0		75	2.8		22	2.1		Q1004		Q4107		1 H	TP1203	5.2
21	2.7		76	2.2	l	23	0	l	1	0	Е	0	J L	TP3001	2.2

OPERATION

MODE STOP

TP3002 2.2 TP3003 2.2

TP3043 2.1

TP4002 0

TP4202 0

TP4204 0

TP4205 1.5

TP4206 4.1

TP4207 0.7 TP4208 0.4 TP4209 0

TP4210 0

0

0

PIN NO.

TP4201

TP4203

LED C.	B.A.	
MODE	STOP	
PIN NO.		
Q6301		
Е	0	
С	3.9	
В	0	
Q6302		
E	0	
С	4.1	
В	0	
Q6303		
E	0	
С	3.9	
В	0	
Q6304		
E	0	
С	0	
В	0.8	
Q6305		
E	0	
C	3.9	
В	0	

DVD	MA	IN (D.E	3.A
-----	----	------	-----	-----

										HEFER TO BEGINNIN	IG OF SCHEMATIC SECTION.
DVD MAIN C.I	B.A										DVD SUB C.B.A.
MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP	MODE STOP
PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.
IC8001	55 -	110 1.9	165 1.7	220 -	18 -	24 -	6 1.0	2 1.6	Q8906	TP8508 3.3	TP8951 3.3
1 -	56 3.4	111 1.9	166 1.7	221 -	19 -	25 -	7 0	3 3.3	E 5.0	TP8509 0	TP8952 1.5
2 -	57 3.4	112 1.7	167 3.3	222 0	20 -	26 -	8 1.5	4 3.3	C 5.1	TP8510 1.7	TP8953 0
3 0	58 3.3	113 1.7	168 1.6	223 -	21 -	27 3.3	9 2.2	5 1.8	B 0.1	TP8510 1.7	TP8954 1.4
	59 3.3										
4 -		114 1.7 115 1.7	169 1.8	224 -	22 -	28 0	10 0	6 1.6	TP8001 0	TP8512 2.6	TP8955 4.6
5 -			170 1.7	225 3.3	23 -	29 -	11 1.5	7 1.6	TP8003 2.2	TP8519 6.0	TP8956 3.0
6 3.3	61 -	116 1.7	171 1.4	226 -	24 -	30 -	12 0	8 6.5	TP8005 4.4	TP8520 6.0	TP8957 3.0
7 -	62 3.3	117 1.7	172 1.3	227 -	25 -	31 -	13 2.1	9 3.0	TP8006 3.4	TP8521 0	TP8958 3.0
8 -	63 0	118 3.3	173 0	228 -	26 2.2	32 -	14 5.0	10 3.0	TP8007 3.4	TP8522 12.0	TP8959 3.0
9 0	64 0	119 2.0	174 0	229 0	27 0	33 -	15 2.2	11 3.1	TP8008 4.8	TP8523 5.1	TP8960 3.3
10 -	65 -	120 1.7	175 0	230 -	28 2.0	34 -	16 4.9	12 2.9	TP8009 2.9	TP8801 1.6	TP8961 0
11 -	66 3.4	121 1.5	176 0	231 3.3	29 -	35 -	17 2.3	13 1.4	TP8010 3.5	TP8802 1.6	
12 3.3	67 3.4	122 0	177 1.7	232 1.7	30 -	36 -	18 2.3	14 4.6	TP8011 3.3	TP8803 0	
13 -	68 -	123 0.4	178 3.3	233 -	31 -	37 3.3	19 0	15 3.0	TP8012 1.3	TP8804 1.6	
14 -	69 3.4	124 1.2	179 0	234 2.3	32 -	38 3.3	20 2.2	16 3.0	TP8013 3.3	TP8805 2.2	
15 -	70 -	125 0.4	180 -	235 0	33 -	39 1.5	21 2.2	17 3.0	TP8014 0	TP8806 1.6	
16 0	71 0.1	126 0.2	181 -	236 1.3	34 -	40 -	22 0	18 3.0	TP8015 3.3	TP8807 1.6	
17 -	72 1.2	127 2.3	182 -	237 -	35 -	41 0	23 1.3	19 0	TP8016 0	TP8809 1.8	
18 -	73 3.4	128 1.7	183 -	238 -	36 -	42 -	24 1.5	20 6.5	TP8018 1.7	TP8810 4.7	
19 3.3	74 0	129 2.3	184 -	239 3.3	37 3.3	43 3.3	25 0	21 6.5	TP8019 1.8	TP8811 1.4	
20 0	75 1.7	130 2.2	185 -	240 3.0	38 -	44 -	26 1.3	22 1.6	TP8020 1.7	TP8812 3.0	
21 3.4	76 2.4	131 2.4	186 -	241 3.3	39 -	45 -	27 1.5	23 1.6	TP8021 0	TP8813 3.1	
22 3.4	77 -	132 2.4	187 -	242 0	40 -	46 0	28 0	24 0	TP8022 1.6	TP8814 3.0	
23 -	78 0.1	133 2.4	188 -	243 1.9	41 -	47 -	29 1.4	25 2.1	TP8023 1.4	TP8815 3.0	
24 -	79 -	134 2.4	189 -	244 3.3	42 -	48 -	30 1.6	26 2.1	TP8024 2.0	TP8816 3.0	
25 -	80 3.4	135 2.0	190 3.3	245 3.2	43 -	49 3.3	31 0.1	27 2.2	TP8025 1.7	TP8817 3.0	
26 1.2	81 3.3	136 2.0	191 0	246 3.3	44 -	50 -	32 2.3	28 1.6	TP8027 1.6	TP8818 3.1	
27 -	82 3.1	137 2.0	192 -	247 0	45 -	51 -	IC8501	Q8504	TP8028 1.6	TP8819 3.0	
28 3.3	83 -	138 2.0	193 1.5	248 0	46 0	52 0	1 1.7	E 0	TP8029 1.5	TP8820 1.5	
29 0	84 3.3	139 1.8	194 -	249 2.4	47 3.3	53 -	2 0.1	C 0	TP8030 1.5	TP8821 3.3	
30 0.4	85 -	140 -	195 -	250 0	48 0.4	54 0	3 1.7	B 0.1	TP8031 1.7	TP8822 3.3	
31 0.9	86 -	141 3.4	196 3.3	251 1.5	IC8003	IC8004	4 0	Q8505	TP8032 0.1	TP8823 6.5	
32 -	87 0	142 1.3	197 -	252 -	1 3.3	1 0	5 3.3	E 0.1	TP8033 0.1	TP8902 5.1	
33 -	88 -	143 -	198 -	253 0	2 -	2 0	6 5.0	C 3.3	TP8034 0.1	TP8903 5.1	
34 3.3	89 1.2	144 2.1	199 -	254 -	3 3.3	3 0	7 0.1	В 0	TP8035 0	TP8904 5.1	
35 0	90 3.4	145 0	200 -	255 3.3	4 -	4 0	8 0.1	Q8901	TP8036 -	TP8906 0.5	
36 -	91 3.4	146 0.5	201 0	256 -	5 -	5 3.3	9 0	E 0.1	TP8037 3.4	TP8912 2.3	
37 -	92 3.4	147 1.7	202 3.3	IC8002	6 0	6 3.2	10 0	C 0	TP8038 0	TP8913 2.3	
38 2.2	93 0	148 1.7	203 -	1 -	7 -	7 0	11 -	B 0	TP8401 0.5	TP8914 2.3	
39 -	94 -	149 0.7	204 -	2 -	8 -	8 3.3	12 -	Q8902	TP8402 1.2	TP8915 2.2	
40 -	95 -	150 0	205 0	3 -	9 3.3	IC8005	13 1.6	E 5.1	TP8403 0.4	TP8916 2.5	
41 -	96 -	151 0.5	206 -	4 -	10 -	1 1.2	14 0.4	C 0	TP8404 0.5	TP8917 2.5	
42 -	97 -	152 0.5	207 -	5 -	11 -	2 1.1	15 3.3	B 5.1	TP8405 0.5	TP8919 2.4	
43 0.3	98 3.3	153 1.4	208 -	6 -	12 0	3 3.3	16 0.3	Q8903	TP8406 0.6	TP8920 2.3	
44 1.2	99 0.9	154 1.4	209 3.3	7 -	13 -	4 3.3	IC8503	E 5.1	TP8407 0	TP8921 2.3	
45 0.1	100 0	155 2.2	210 -	8 -	14 3.3	5 0	1 6.2	C 0	TP8408 0	TP8922 2.3	
46 -	101 2.4	156 0.5	211 -	9 0.1	15 2.4	6 0	2 1.0	B 5.1	TP8409 0.4	TP8923 2.3	
47 -	102 2.2	157 0	212 -	10 3.4	16 0	7 2.2	3 6.2	Q8904	TP8410 1.2		
48 3.3	103 1.9	158 0.9	213 0	11 3.4	17 3.2	8 2.2	4 0	E 5.1	TP8411 1.5		
49 0	104 0.3	159 3.3	214 2.4	12 3.4	18 3.3	IC8401	5 6.0	C 0	TP8412 0		
50 -	105 0	160 0	215 2.4	13 3.3	19 3.0	1 5.0	6 6.0	B 5.1	TP8416 0		
51 -	106 1.4	161 3.3	216 3.3	14 3.3	20 2.3	2 0.1	7 0.1	Q8905	TP8504 0		
52 2.0	107 3.3	162 0	217 -	15 0.9	21 1.7	3 0.1	8 12.0	E 0	TP8505 1.6		
53 0	107 3.3	163 1.8	218 0	16 0.9	22 -	4 2.1	IC8801	C 3.9	TP8506 3.3		
54 3.3	109 -	164 0	219 1.3	17 0.3	23 -	5 5.0	1 0	B 0.3	TP8507 3.1		
0.0	100 -	107 0	210 1.0	17 0.0	20 -	3 3.0	. , ,	D 0.0	11 0007 0.1		

CIRCUIT BOARD LAYOUT

8.1. MAIN C.B.A.

MAIN C.B.A. LSEP2216HA (A,B,C) / LSEP2216HK (F)

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

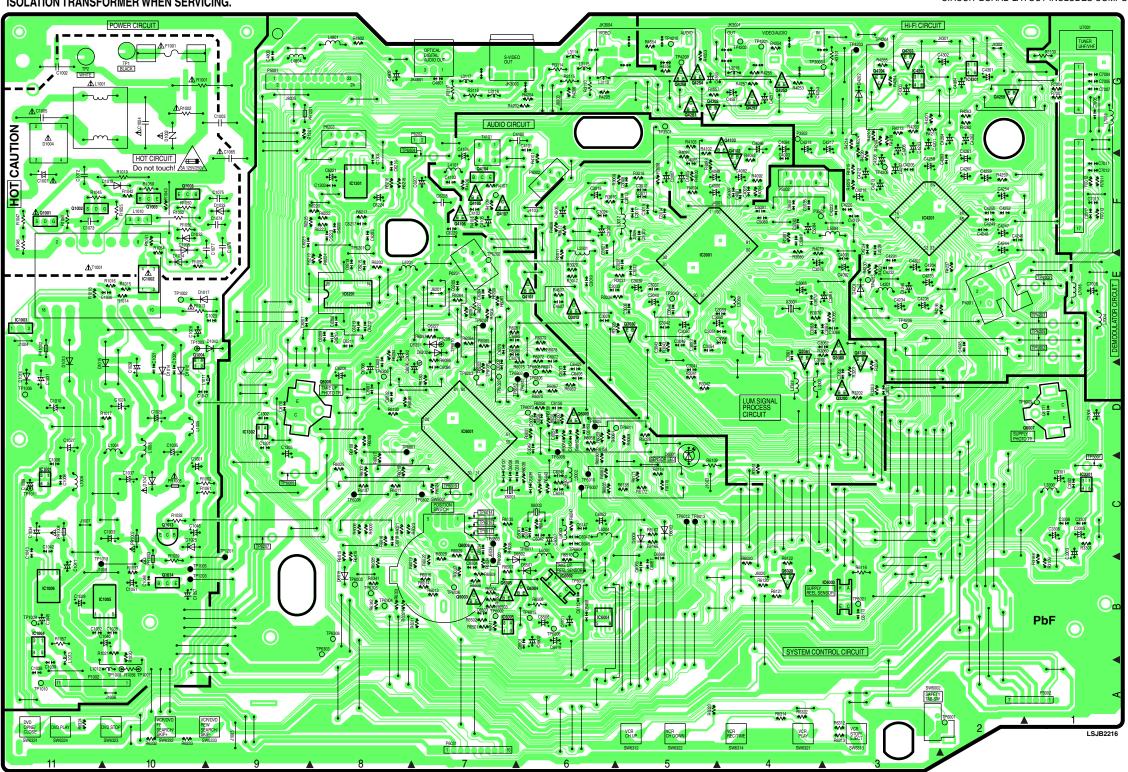
HOT CIRCUIT.BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 3.0A 125V/250V FUSE. ATTENTION:POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME 3.0A 125V/250V TYPE 3.0A 125V/250V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE:
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	Е
PV-D4745S-K	F
	G

MAIN C.B.A. LSEP2216HA/LSEP2216HK PV-D4735S/PV-D4745/PV-D4745S/PV-D4745S-K

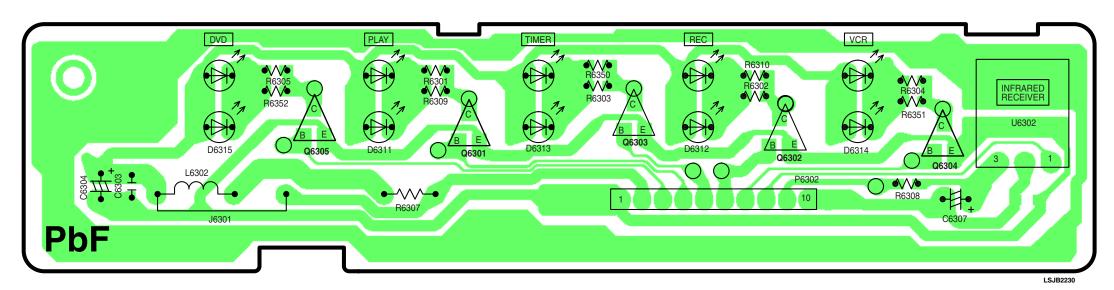
OPERATION LED C.B.A./ FRONT JACK C.B.A.

OPERATION LED C.B.A. LSEP2230HA

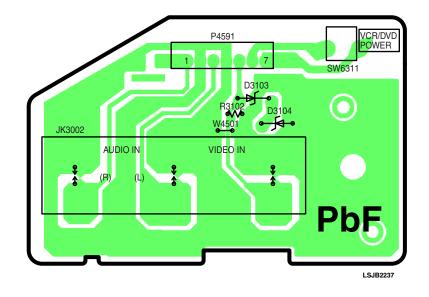
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



FRONT JACK C.B.A. LSEP2237HA



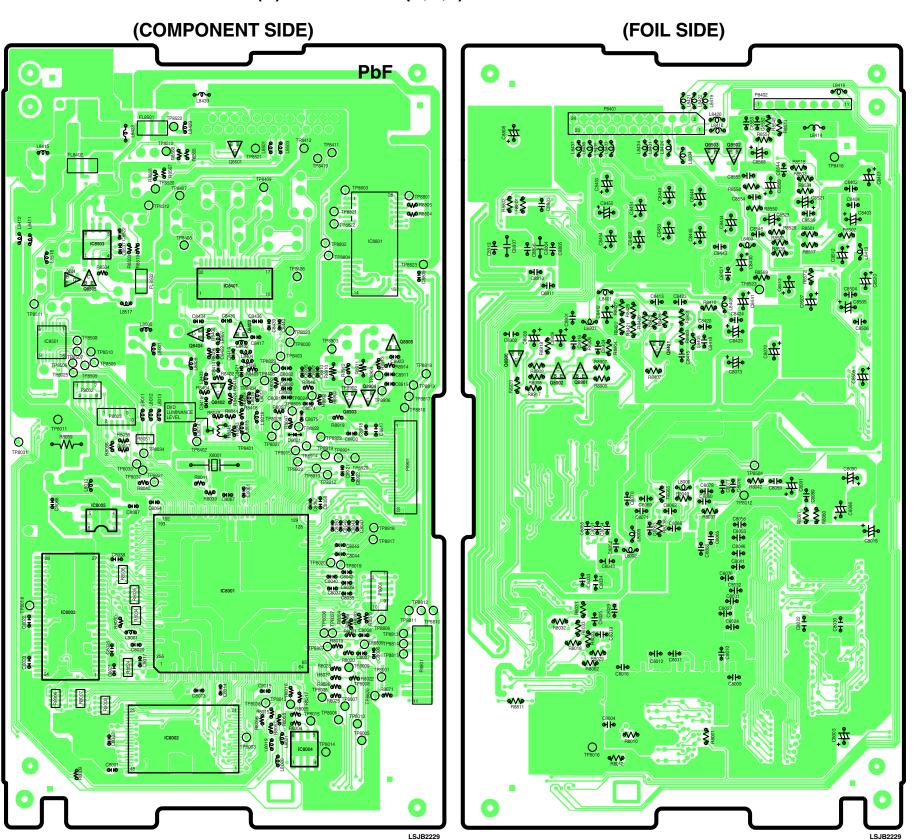
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

B.3. DVD MAIN C.B.A./ DVD SUB C.B.A.

DVD MAIN C.B.A. LSEP2229B (A) / LSEP2229C (B,C,F)



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G

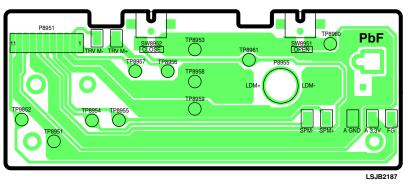
DVD SUB C.B.A. LSEP2187A

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

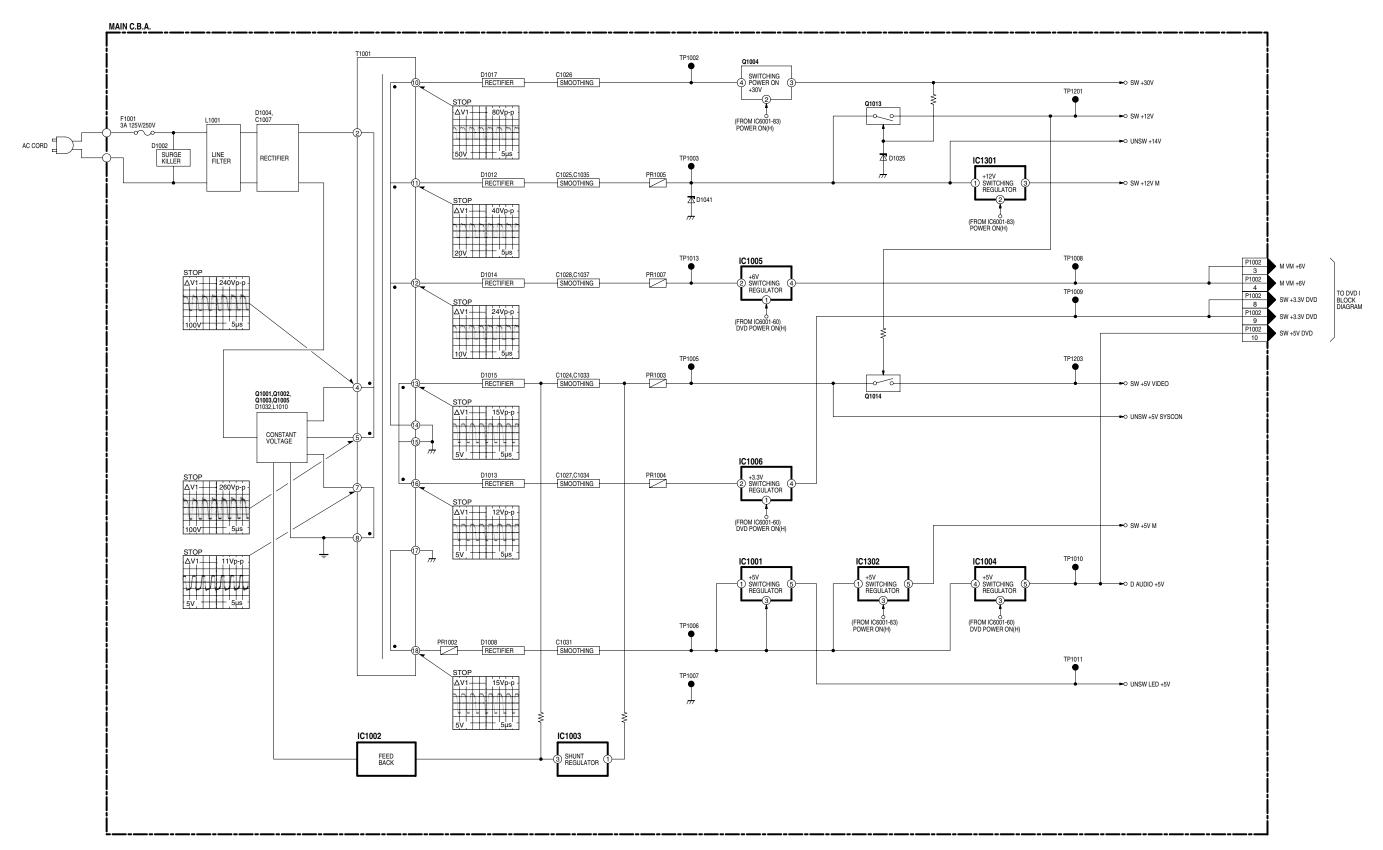
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



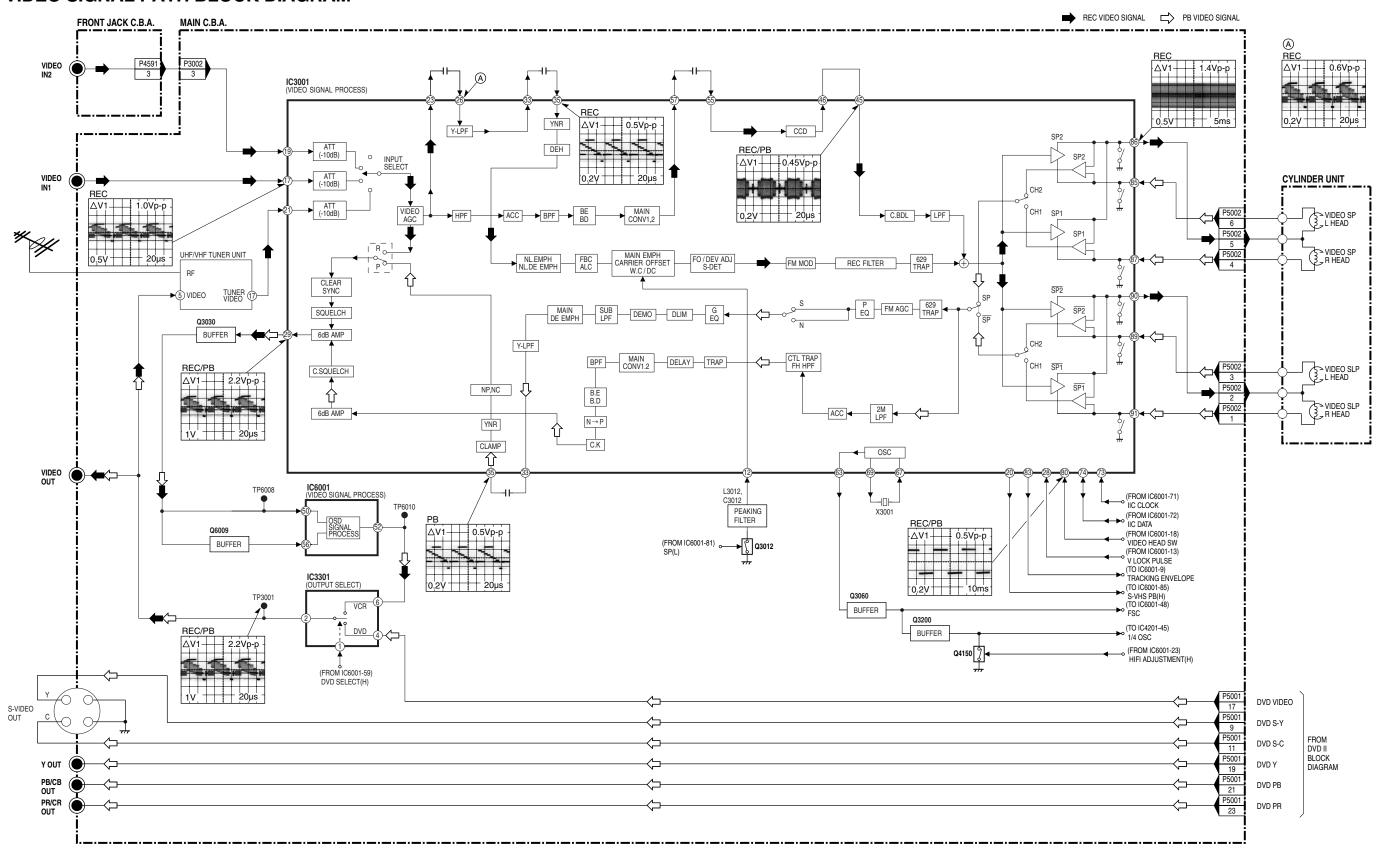
DVD SUB C.B.A. LSEP2187A
DVD MAIN C.B.A. LSEP2229B/LSEP2229C
PV-D4735S/PV-D47455/PV-D4745S-K

9 BLOCK DIAGRAMS

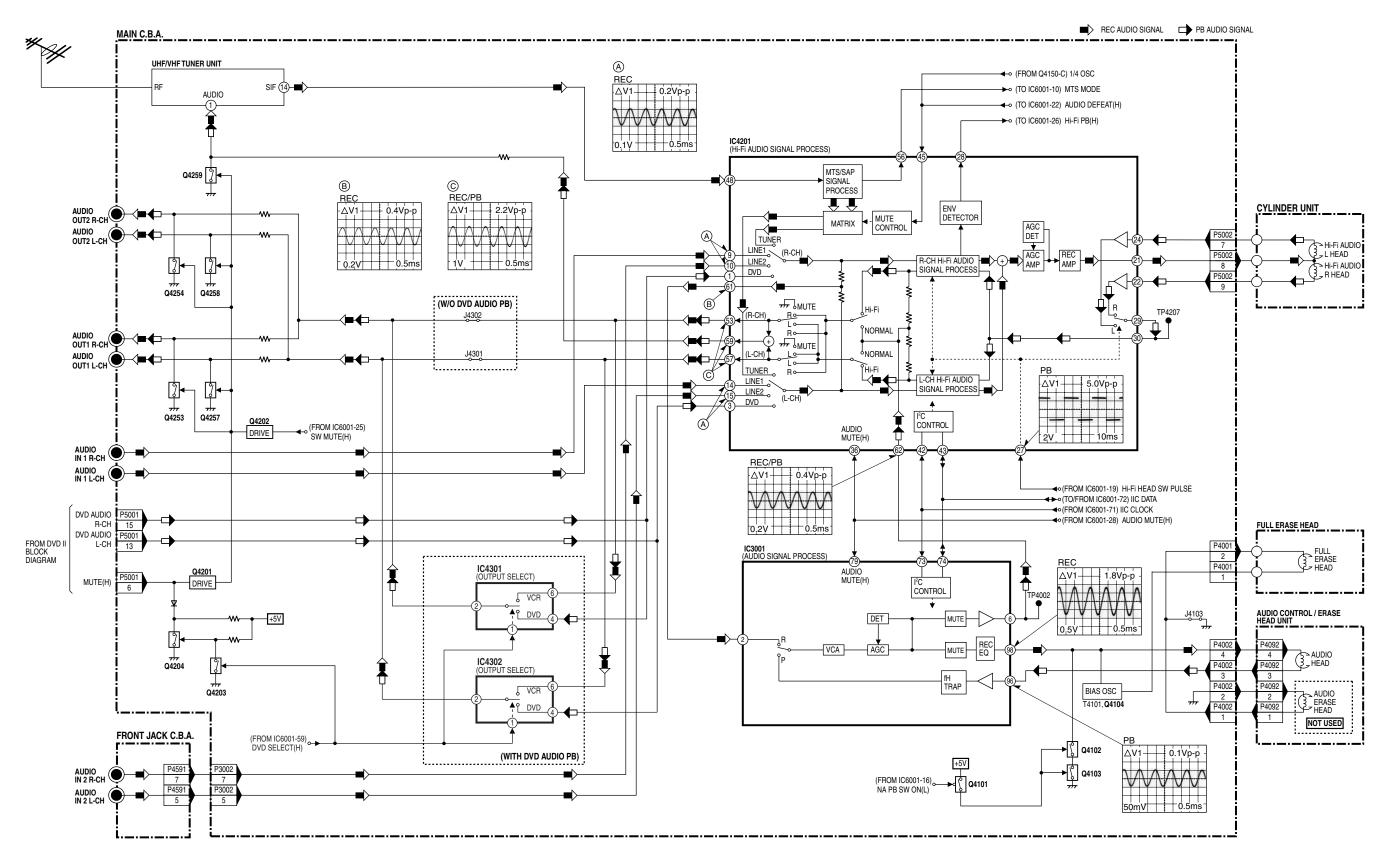
POWER SUPPLY BLOCK DIAGRAM



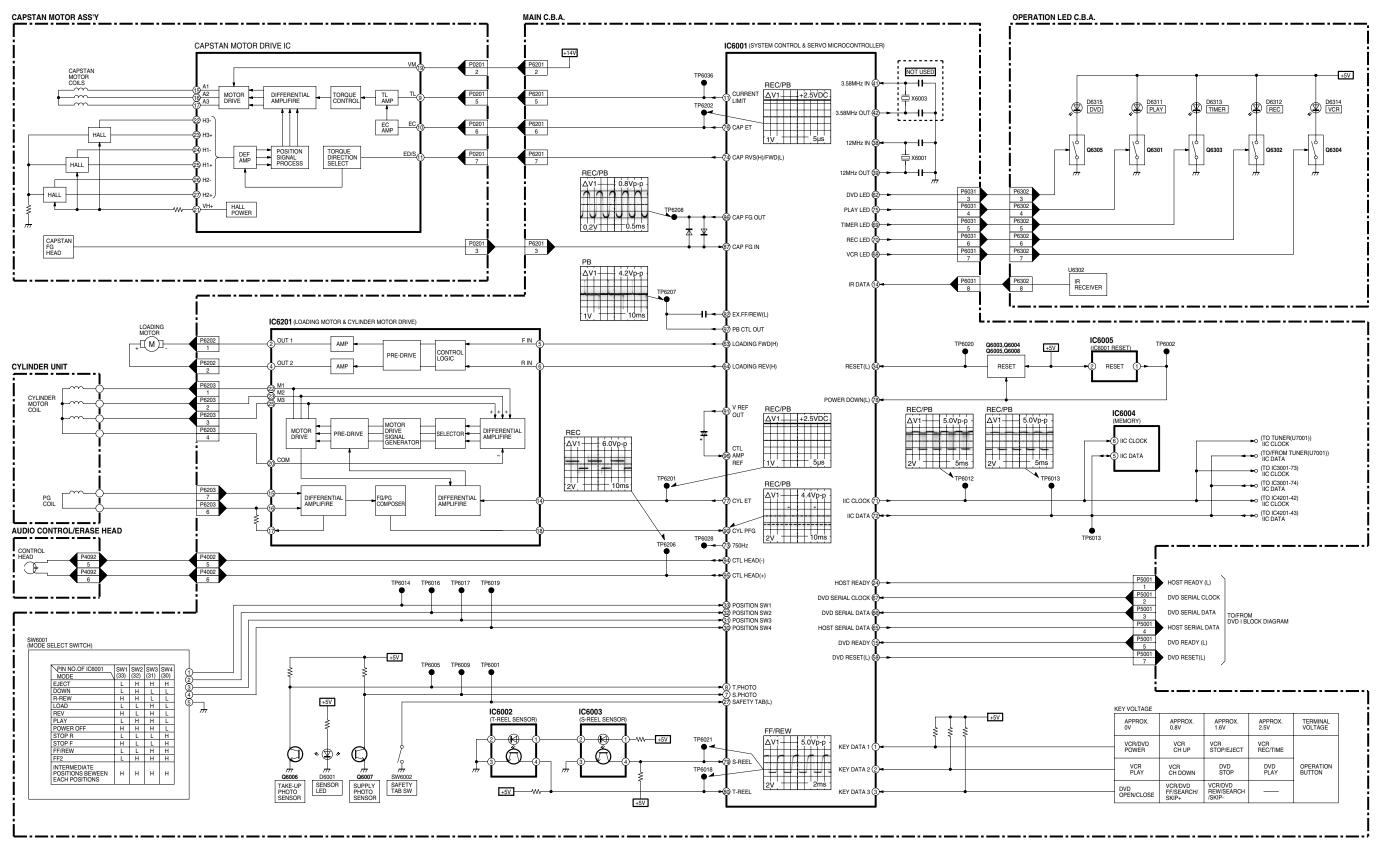
VIDEO SIGNAL PATH BLOCK DIAGRAM



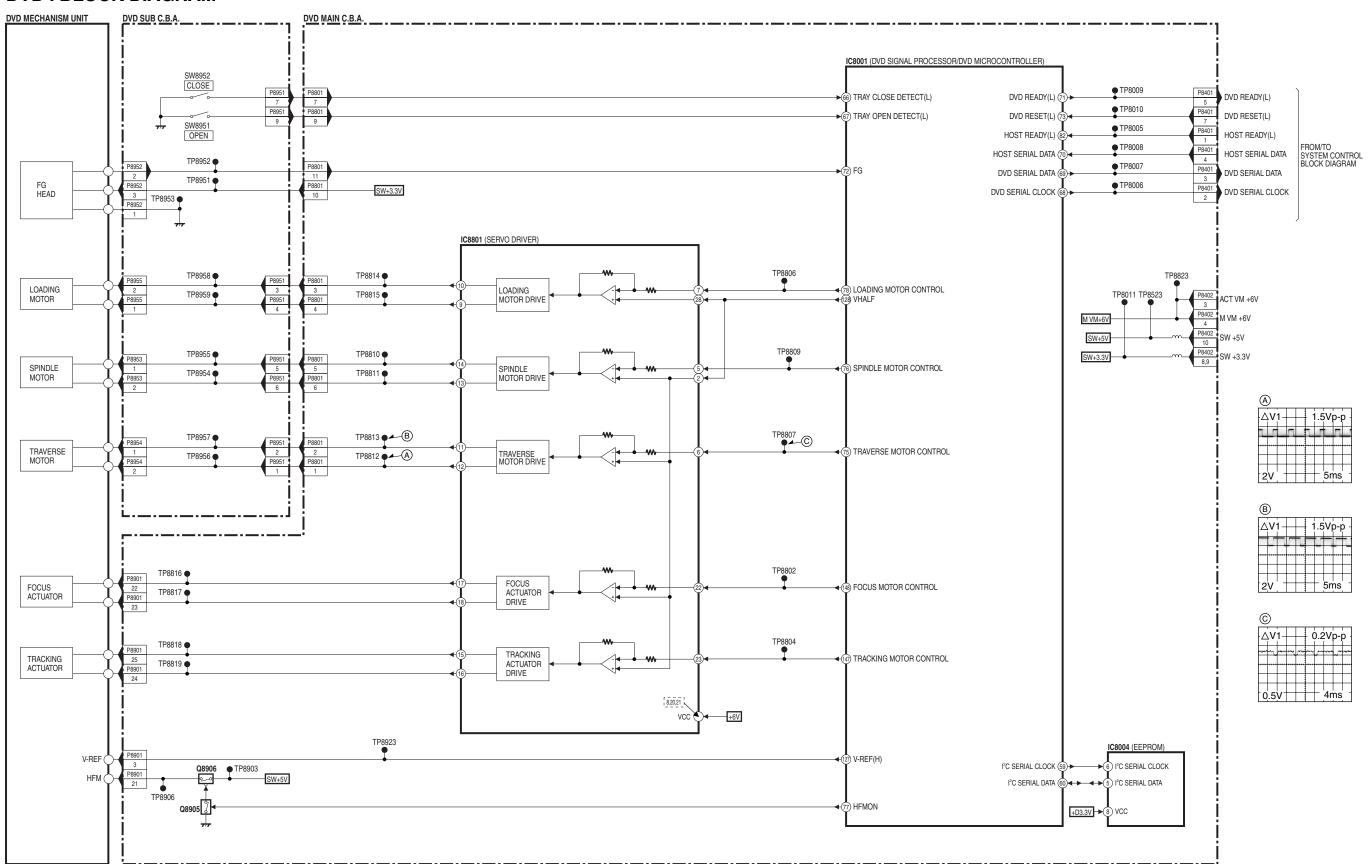
AUDIO SIGNAL PATH BLOCK DIAGRAM



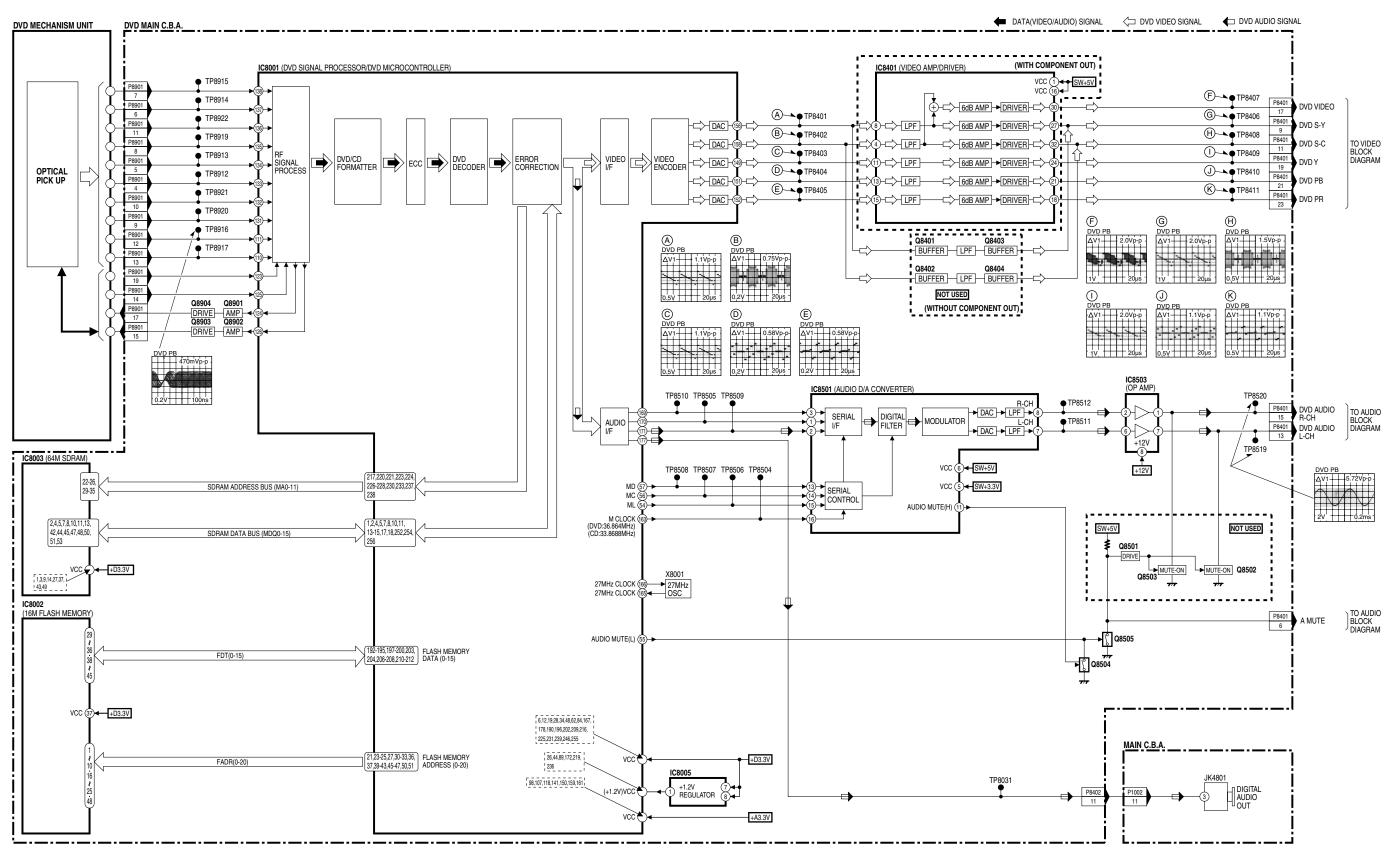
SYSTEM CONTROL / SERVO BLOCK DIAGRAM



DVD I BLOCK DIAGRAM



DVD II BLOCK DIAGRAM



Troubleshooting Hints

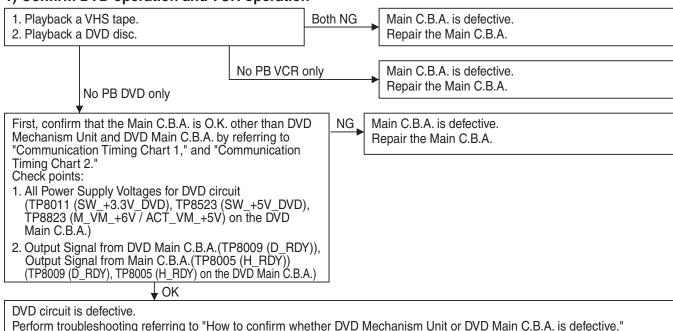
How to confirm whether DVD circuit or other circuits is defective.

NOTE:

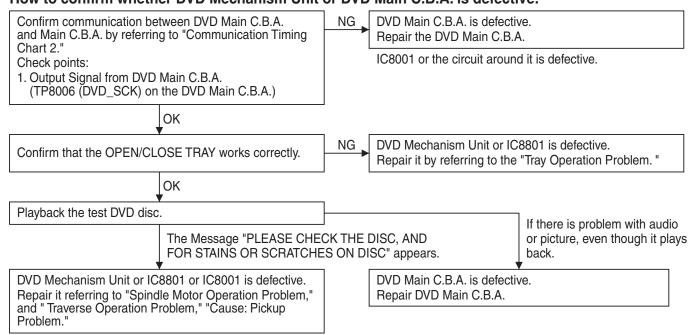
Host communication may not occur correctly between IC6001 on the Main C.B.A. and IC8001 on the DVD Main C.B.A. when there is a problem on the DVD Main C.B.A.

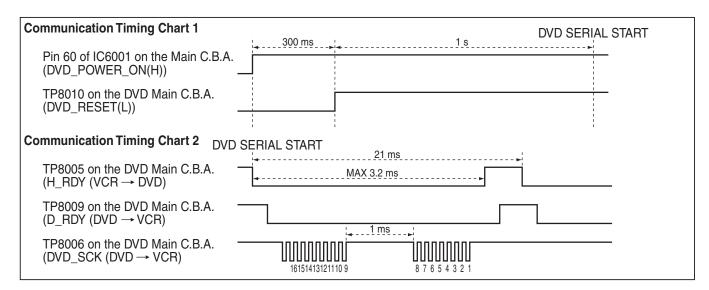
(Serial Data Communication failure between IC6001 and IC8001 within 30sec. IC6001 will switch automatically to VCR.) (Check the VCR mode indicator and DVD mode indicator on the Front Light-up Indicators.) Check the voltage during the 30 seconds during which the unit remains in DVD mode.

1) Confirm DVD operation and VCR operation



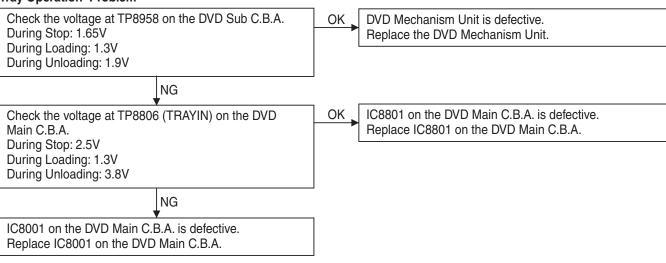
How to confirm whether DVD Mechanism Unit or DVD Main C.B.A. is defective.





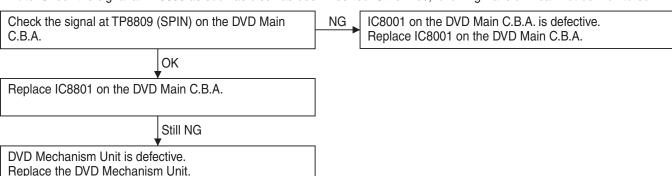
Troubleshooting Hints of DVD Mechanism Unit

Tray Operation Problem

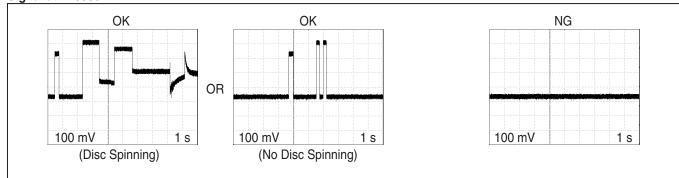


Spindle Motor Operation Problem

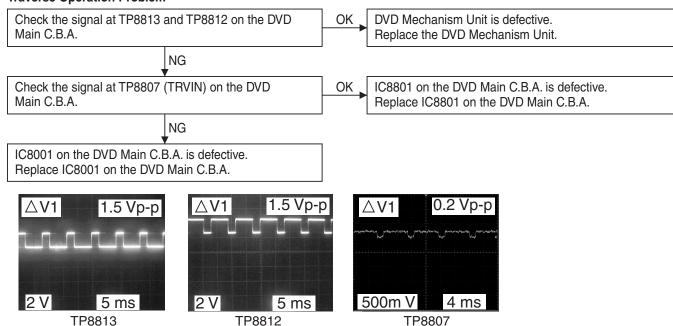
Note: Check the signal at TP8809 as soon as disc has been inserted. Otherwise, following waveform can not be monitored.



Signal at TP8809

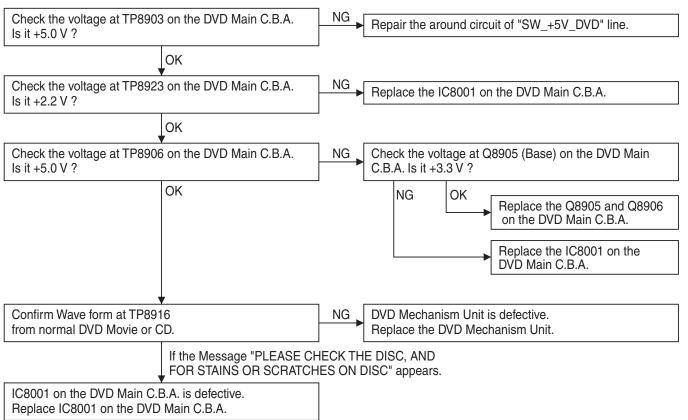


Traverse Operation Problem

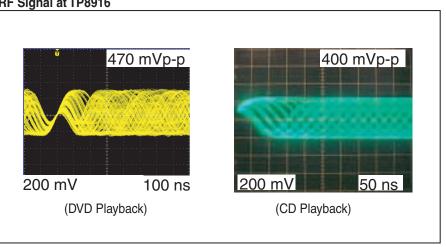


Pickup Operation Problem

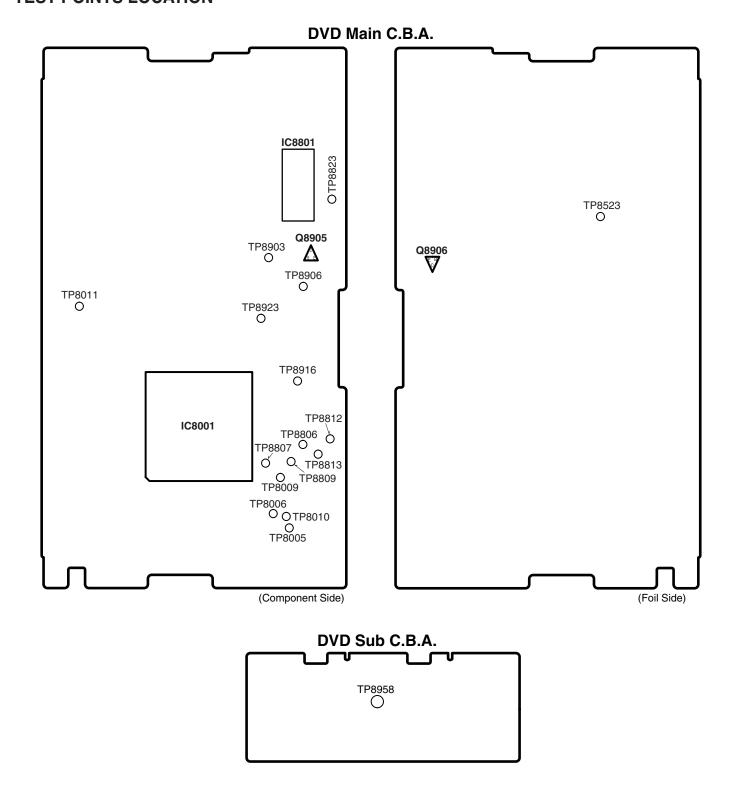
Note: Check the voltage during 10 to 20 seconds as soon as disc has been inserted.



RF Signal at TP8916



TEST POINTS LOCATION

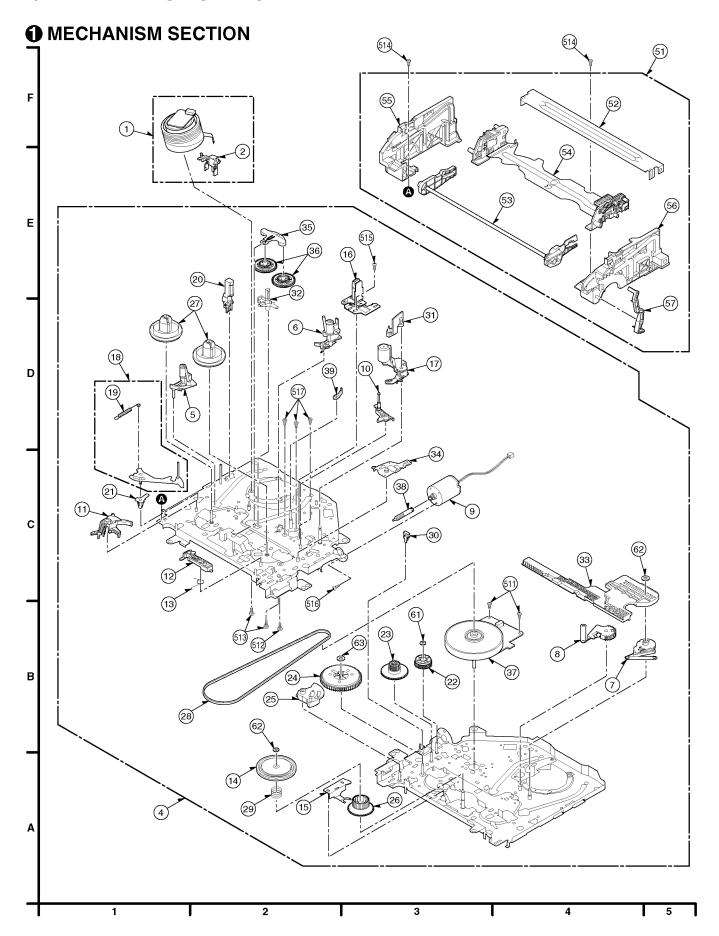


Test Point Information

- Test Point with a Test Pin.
- O Test Point with no Test Pin.

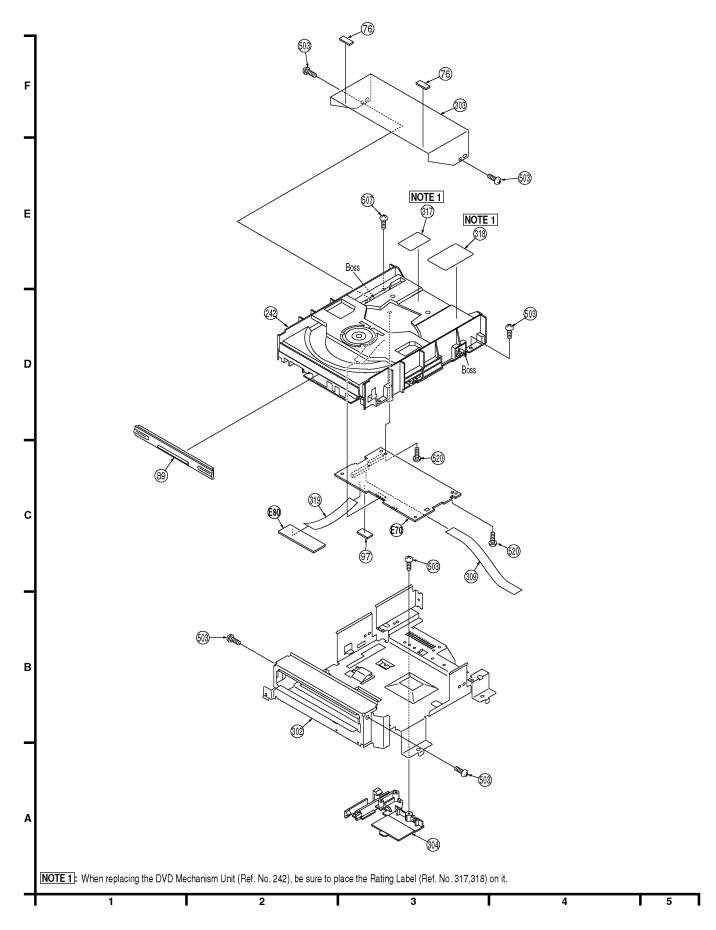
10 EXPLODED VIEWS

10.1. MECHANISM SECTION



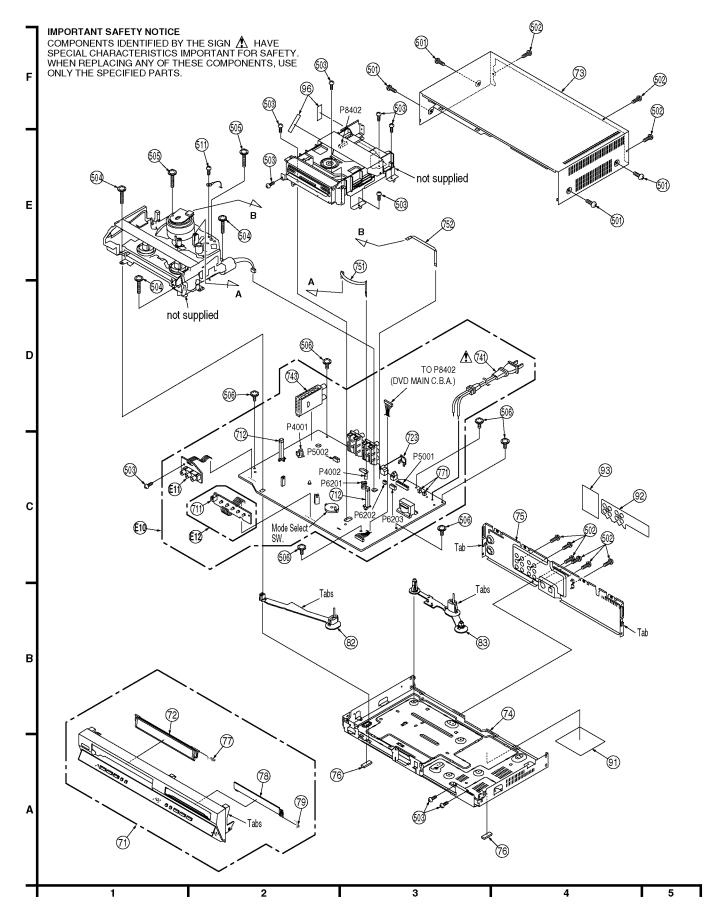
10.2. DVD SECTION

2 DVD SECTION



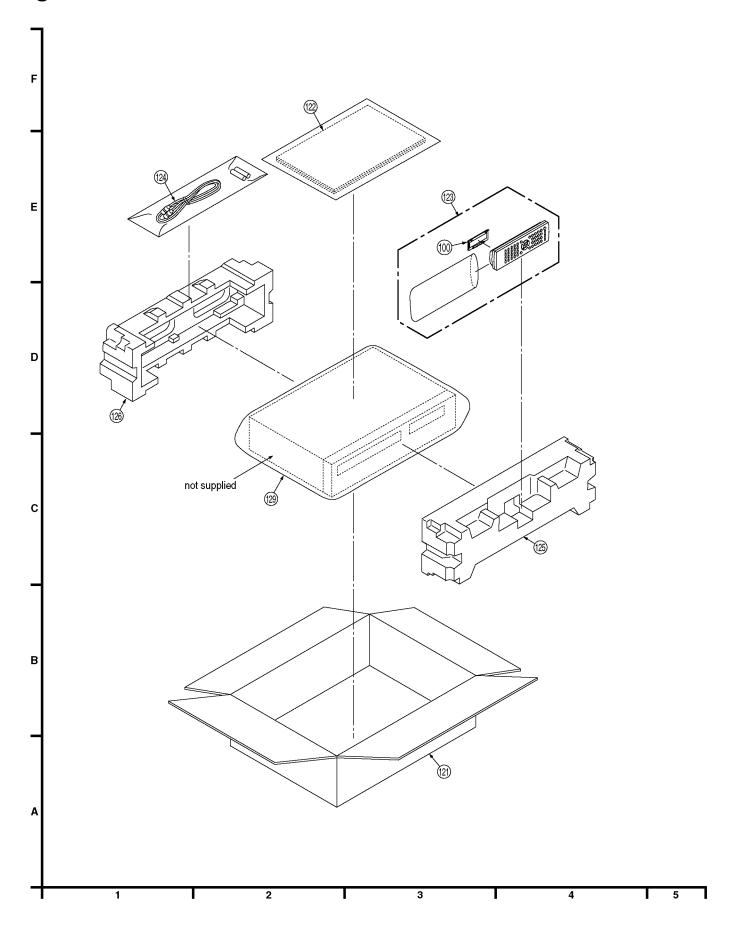
10.3. CHASSIS FRAME AND CASING PARTS SECTION

3 CHASSIS FRAME AND CASING PARTS SECTION



10.4. PACKING PARTS AND ACCESSORIES SECTION

4 PACKING PARTS AND ACCESSORIES SECTION



11 REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS. READ THE FOLLOWING:

11.1. REPLACEMENT NOTES

11.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign \triangle have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- 5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- 6. Definition of Parts supplier:
 - a. Parts with mark "SPC" in the Remarks column are supplied from Spare Parts Center of Panasonic AVC Company.
 - b. Parts with mark "MKE" in the Remarks column are supplied from MKE.
 - c. Parts without mark in the Remarks column are supplied from MKI.
- 7. Item numbers with capital letter E (Example: E10, E20,) in the Ref. No. column are shown in the exploded views.
- 8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

11.1.2. Mechanical Replacement Notes

- 1. Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. The Mechanical Chassis Sub Ass'y (Ref. No. 4) consists of all the mechanical parts except the Cylinder Kit (Ref. No. 1) and the Cassette Up Ass'y (Ref. No. 51).

After replacing the Mechanical Chassis Sub Ass'y, be sure to perform "TAPE INTERCHANGEABILITY ADJUSTMENT" in Service Manual for R4-Mechanism Chassis for PV-Model (Order No. MKE0401000C1).

- 3. Cylinder is supplied as a Cylinder Kit (Ref. No. 1) only. Cylinder Kit consists of a Cylinder and a Main FPC Holder (Ref. No.2). However, FPC Holder (Ref. No.2) is available separately as a replacement part.
- 4. The Infrared Remote Control Unit (Ref. No. 123) replacement part is available as a complete assembly unit

only. Do not try to disassemble the Infrared Remote Control Unit.

5. FPC Holder (Ref. No. 2) is not reusable. If removed, install a new one.

11.1.3. Electrical Replacement Notes

1. Unless otherwise specified;

All resistors are in Ω , K = 1,000 Ω , M = 1,000 k Ω .

2. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

production, it will no longer be available.

NR Non Repairable Board Ass'y MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip
COMPLX CMP: Complex Component
W FLMPRF: Wirewound Flameproof
C.B.A.: Circuit Board Assembly
P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

- 3. When replacing 0 .resistor, a wire can be substituted for it.
- 4. Since the UHF/VHF TUNER/TV DEMODULATOR UNIT (Ref. No. 743) has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATOR UNIT replacement part is available as a complete assembly unit only.
- 5. EEP ROM IC (IC6004), MAIN C.B.A. replacement note:

 After replacing EEP ROM IC (IC6004) or MAIN C.B.A., be sure to perform the "PG SHIFTER ADJUSTMENT" in ELECTRICAL ADJUSTMENT procedures.

11.2. MECHANICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G

Definition of Parts supplier:

- 1. Parts with mark "SPC" in the Remarks column are supplied from Spare Parts Center of Panasonic AVC Company.
- 2. Parts with mark "MKE" in the Remarks column are supplied from MKE.
- 3. Parts without mark in the Remarks column are supplied from MKI.

MECHANIÇAL REPLACEMENT PARTS

Ref. No.	Part No.		Remarks
1	LSVD0010	CYLINDER KIT	1
2	VMD4983	FPC HOLDER	1
4	LSXY0542	MECHANICAL CHASSIS SUB ASS'Y	1
5	VXA7105	SUPPLY SHAFT HOLDER UNIT	1
6	VXA7106	TAKE UP SHAFT HOLDER UNIT	1
7	VXL3107	SUPPLY LOADING ARM UNIT	1
8	VXL3108	TAKE UP LOADING ARM UNIT	1
9	VEM0796	LOADING MOTOR UNIT	1
10	VXL3110	P5 ARM UNIT	1
11	VXL3112	SUPPLY BRAKE ARM UNIT	1
12	VXL3121	TAKE UP BRAKE ARM UNIT	1
13	VMB3548	TAKE UP BRAKE SPRING	1
14	VXP2133	CENTER CLUTH UNIT	1
15	VXL3124	CHANGING LEVER UNIT	1
16	LSEH0008	AUDIO CONTROL/ERASE HEAD UNIT	1
17	VXL3109	PINCH ARM UNIT	1
18	VXL3111	TENSION ARM UNIT	1
19	VMB3547	TENSION SPRING	1
20	L1AZ00000004	FULL ERASE HEAD	1
21	VDB1431	TENSION ARM BOSH	1
22	VXP2168	TORQUE CLUTCH UNIT	1
23	VDG1510	INTERMEDIATE GEAR	1
24	VDG1511	MAIN CAM GEAR	1
25	VXA7311	SECTOR GEAR UNIT	1
26	VDG1514	CHANGE GEAR	1
27	VDR0372	REEL TABLE	1
28	VDV0391	CAPSTAN BELT	1
29	VMB3550	CHANGING GEAR SPRING	1
30	VMD4987	WORM BEARING	1
31	VMD4252	OPENER PIECE	1
32	VMD4253	LED PRISM	1
33	VML3624	MAIN LEVER	1
34	VML3626	PINCH CHARGE ARM	1
35	VML3632	IDLER ARM	1
36	VDG1512	IDLER GEAR	1
37	VEM0800	CAPSTAN ASS'Y	1
38	VDG1637	WORM GEAR	1
39	VMX3377	P4 CAP	1
51	VXA7108	CASSETTE UP ASS'Y	1
52	VMA0L25	TOP PLATE	1
53	VXL3160	MAIN SHAFT UNIT	1
54	VXA7110	CASSETTE HOLDER UNIT	1
55	VMD4255	SIDE PLATE L	1
56	VMD4254	SIDE PLATE R	1

VML3706	Ref. No.	Part No.	Part Name & Description	Remarks
62 VMX3196 WASHER,NYLON 1 63 VMX2699 WASHER,NYLON 1 71 VYFS7177 FRONT PANEL ASS Y (A) 3 71 VYFS7178 FRONT PANEL ASS Y (B) 3 71 VYFS7178 FRONT PANEL ASS Y (C,F) 3 72 LSGP0457 CASSETTE DOOR-LID (A,C,F) 3 72 LSGP0458 CASSETTE DOOR-LID (B) 3 73 LSKM1124 TOP PANEL (B) 3 74 LSMK0858 BOTTOM COVER 3 75 LSMK0859 REAR COVER 3 76 VKA0364 FOOT 2,3 77 LSMB0310 CASSETTE DOOR SPRING 3 78 LSGP0458 DVD DOOR-LID (B) 3 78 LSGP0459 DVD DOOR-LID (C,F) 3 78 LSGP0459 DVD DOOR-LID (C,F) 3 79 LSMB0312 DVD DOOR SPRING 3 81 LSMX0205 MECHA SPACER F 3 82 LSMX0205 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGD6461 CAUTTON LABEL 3 92 LSQL1863 INDICATION LABEL 3 92 LSQL1863 INDICATION LABEL 3 94 LSGP0459 PACKING CASE, PAPER (B) 4 121 LSFG1941 PACKING CASE, PAPER (C) 4 121 LSFG1941 PACKING CASE, PAPER (B) 4 122 LSGCP0907 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 124 LSGCP0907 FAN BAG (B,C) 4 125 LSGN035 REAR CUSHION, STYROFOAM 4 126 LSGCP0908 FAN BAG (F) 4 127 LSGCP0908 FAN BAG (F) 4 128 LSGCP0908 FAN BAG (F) 4 129 LSGCP0908 FAN BAG (F) 4 120 LSGCP0908 FAN BAG (F) 4 121 LSFG1946 SHEAT SPRING CASE, PAPER (C) 4 122 LSGCP0907 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 5 125 LSGN0559 REAR CUSHION, STYROFOAM 4 126 LSGN0559 REAR CUSHION, STYROFOAM 4 127 LSGCP0908 FAN BAG (F) 4 128 LSGCP0908 FAN BAG (B,C) 4 129 LSGCP0908 FAN BAG (B,C) 4 120 LSGCP0908 FAN BAG (B,C) 4 121 LSFG1946 SHEET, POLYETHYLENE 4 126 LSGN0559 REAR CUSHION, STYROFOAM 4 127 LSGCP0908 FAN BAG (B,C) 4 128 LSGCP0908 FAN BAG (B,C) 4 129 LSGCP0908 FAN BAG (B,C) 4 120 LSGCP0908 FAN BAG (B,C) 4 121 LSGCP0908 FAN BAG (B,C) 4 122 LSGCP0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 5 127 LSGCP0908 FAN BAG (B,C) 4 128 LSGCP0908 FAN BAG (B,C) 4 129 LSGCP0908 FAN BAG (B,C) 4 120 LSGCP0908 FAN BAG (B,C) 4 121 LSGCP0908 FAN BAG (B,C) 4 122 LSGCP0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 5 129 LSG	57	VML3706	OPENER LEVER	1
03	61	VMX2208	WASHER, NYLON	1
71	62	VMX3196	WASHER, NYLON	1
71			·	
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74 LSMK0858 BOTTOM COVER 3 75 LSMK0859 REAR COVER 3 76 VKA0364 FOOT 2,3 77 LSMB0310 CASSETTE DOOR SPRING 3 78 LSGP0459 DVD DOOR-LID (B) 3 78 LSGP0461 DVD DOOR FRING 3 79 LSMB0312 DVD DOOR SPRING 3 81 LSMB00312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSME0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 94 LSQL1879 LICENSE LABEL 3 97 LMMY0030 HEAT SHEET,SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1944 PACKING CASE,PAPER (A) 4 122 LSQF0907 <				
75 LSMK0859 REAR COVER 3 76 VKA0364 FOOT 2,3 77 LSMB0310 CASSETTE DOOR SPRING 3 78 LSGP0459 DVD DOOR-LID (A) 3 78 LSGP0461 DVD DOOR-LID (C,F) 3 79 LSMB0312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1879 LICENSE LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 121 LSPG1940 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (C) 4 121 LSPG1997 FAN BAG (B, C) 4 122 LSQF09				
76 VKA0364 FOOT 2,3 77 LSMB0310 CASSETTE DOOR SPRING 3 78 LSGP0459 DVD DOOR-LID (A) 3 78 LSGP0464 DVD DOOR-LID (C,F) 3 79 LSMB0312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77E2406A BATTERY COVER 4 121 LSPG1946 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 122 LSQF0907 FAN BAG (B,C) 4 122 <				
To LSMB0310 CASSETTE DOOR SPRING 3 3 3 3 3 3 3 3 3				
78 LSGP0459 DVD DOOR-LID (A) 3 78 LSGP0461 DVD DOOR-LID (B) 3 78 LSGP0461 DVD DOOR SPING 3 79 LSMB0312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1666 CAUTION LABEL 3 92 LSQL1879 LICENSE LABEL 3 93 LSGMF0389 NONFABRIC TAPE 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1940 PACKING CASE, PAPER (A) 4 121 LSPG1944 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (F) 4 122 LSQF0907 FAN BAG (B, C) 4 122<				
78 LSGP0461 DVD DOOR-LID (C,F) 3 79 LSMB0312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1663 INDICATION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET,SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1946 PACKING CASE,PAPER (A) 4 121 LSPG1946 PACKING CASE,PAPER (B) 4 121 LSPG1944 PACKING CASE,PAPER (C) 4 122 LSQF0907 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) <td>78</td> <td>LSGP0459</td> <td>DVD DOOR-LID (A)</td> <td>3</td>	78	LSGP0459	DVD DOOR-LID (A)	3
79 LSMB0312 DVD DOOR SPRING 3 82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSQF0381 TRAY COVER 2 91 LSQL1863 INDICATION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1944 PACKING CASE, PAPER (C) 4 122 LSQF0907 FAN BAG (B,C) 4 122 LSQF0935 FAN BAG (B,C) 4 122 LSQF0935 FAN BAG (F) 4 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F)	78	LSGP0464	DVD DOOR-LID (B)	3
82 LSMX0204 MECHA SPACER F 3 83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET,SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE,PAPER (A) 4 121 LSPG1946 PACKING CASE,PAPER (B) 4 121 LSPG1941 PACKING CASE,PAPER (C) 4 122 LSQF0907 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 124 LSJA0418 VHF CONNECTING CABLE 4 WPLUG,CON 4	78	LSGP0461	DVD DOOR-LID (C,F)	3
83 LSMX0205 MECHA SPACER R 3 89 LSGP0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSQF0907 FAN BAG (A) 4 122 LSQF0907 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 1 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG, OV 1 125 LSQF0084 SHEET, POLYETHYLENE 4 126 LSPF0084 SHEET, POLYETHYLENE 4 127 LSQK0792 DVD ANGLE 2 130 LSGK0792 DVD SHIELD PLATE 2 130 LSGK0792 DVD SHIELD PLATE 2 130 LSGK0792 DVD SHIELD PLATE 2 131 LSQL1856 RATING LABEL 2 131 LSQL1856 RATING LABEL (A) 2 131 LSQL1856 RATING LABEL (B,C,F) 2 131 LSQL1856 RATING LABEL (B,C,F) 2 131 LSQL1854 RATING LABEL (B,C,F) 2 131 LSQL1854 RATING LABEL (B,C,F) 2 131 LSQL1854 RATING LABEL (B,C,F) 3 131 LSQL1854 RATING LABEL (B,C,F) 3 132 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 131 PLUG 501 XTW3+5TFN SCREW, STEEL (A,C,F) 3 1501 XTW3+5TFN SCREW, STEEL (A,C,F) 3	79	LSMB0312	DVD DOOR SPRING	3
89 LSGP0381 TRAY COVER 2 91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0908 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG,OV 4 125 LSPN0558 FRONT CUSHION,STY	82	LSMX0204	MECHA SPACER F	3
91 LSQL1616 CAUTION LABEL 3 92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (F) 4 122 LSQF0907 FAN BAG (B,C) 4 122 LSQF0908 FAN BAG (B,C) 4 122 LSQF0935 FAN BAG (F) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 124 LSJA0418 VHF CONNECTING CABLE 4 (B,C,F) 4 125 LSPN0558 FRONT	83	LSMX0205	MECHA SPACER R	3
92 LSQL1863 INDICATION LABEL 3 93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (F) 4 122 LSQF0907 FAN BAG (A) 4 123 LSQF0908 FAN BAG (B,C) 4 124 LSQF0908 FAN BAG (F) 4 125 LSQF0908 FAN BAG (F) 4 126 LSQF0908 FAN BAG (F) 4 127 LSQF0908 FAN BAG (F) 4 128 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (A) (B,C,F) 129 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG, OV 125 LSPN0558 FRONT CUSHION, STYROFOAM 4 126 LSPN0559 REAR CUSHION, STYROFOAM 4 129 LSPF0084 SHEET, POLYETHYLENE 4 129 LSPK0084 SHEET, POLYETHYLENE 4 129 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 3 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 3 317 LSQL1907 RATING LABEL (A) 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1856 RATING LABEL (B,C,F) 3 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 5 501 XTW3+5TFN SCREW, STEEL (A,C,F) 3 501 XTW3+5TFN SCREW, STEEL (B) 3	89	LSGP0381	TRAY COVER	
93 LSQL1879 LICENSE LABEL 3 96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET, SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (F) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0907 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (A) 1 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 1 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG, OV 1 125 LSPN0558 FRONT CUSHION, STYROFOAM 4 1 126 LSPN0559 REAR CUSHION, STYROFOAM 4 1 127 LSPN0558 FRONT CUSHION, STYROFOAM 4 1 128 LSPN0559 REAR CUSHION, STYROFOAM 4 1 129 LSPF0084 SHEET, POLYETHYLENE 4 1 129 LSPK0084 SHEET, POLYETHYLENE 4 1 120 LSMA0798 DVD ANGLE 2 2 1303 LSSC0792 DVD SHIELD PLATE 2 2 1304 LSGK0182 BARRIER 2 2 1305 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 3 17 LSQL1907 RATING LABEL (A) 2 2 18 LSQL1856 RATING LABEL (A) 2 2 18 LSQL1856 RATING LABEL (B,C,F) 2 3 19 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 5 10 XTW3+5TFN SCREW, STEEL (B,C,F) 3 5 10 XTW3+5TFN SCREW, STEEL (B,C,F) 3	91	LSQL1616	CAUTION LABEL	
96 LSMF0389 NONFABRIC TAPE 3 97 LMMY0030 HEAT SHEET,SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE,PAPER (A) 4 121 LSPG1946 PACKING CASE,PAPER (B) 4 121 LSPG1941 PACKING CASE,PAPER (C) 4 121 LSPG1944 PACKING CASE,PAPER (C) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (A) 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG,OV 125 LSPN0558 FRONT CUSHION,STYROFOAM 4 126 LSPN0559 REAR CUSHION.STYROFOAM 4 127 LSPK0084 SHEET,POLYETHYLENE 4 128 LSKK0227 DVD UNIT 2 109 LSPK0084 SHEET,POLYETHYLENE 4 129 LSKM0798 DVD ANGLE 2 100 LSMA0798 DVD ANGLE 2 101 LSGK0182 BARRIER 2 102 LSW0093 FLEXIBLE FLAT CABLE W/OUT 2 123 LSQL1856 RATING LABEL (A) 2 136 LSQL1856 RATING LABEL (B) 3 150 LSTW3+5TFN SCREW,STEEL (B) 3	_			
97 LMMY0030 HEAT SHEET,SI 2 100 EUR77EC2406A BATTERY COVER 4 121 LSPG1920 PACKING CASE,PAPER (A) 4 121 LSPG1946 PACKING CASE,PAPER (B) 4 121 LSPG1941 PACKING CASE,PAPER (C) 4 121 LSPG1944 PACKING CASE,PAPER (F) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0908 FAN BAG (B,C) 4 122 LSQF0935 FAN BAG (F) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 4 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG,OV 4 125 LSPN0558 FRONT CUSHION,STYROFOAM 4 4 126 LSPN0559 REAR CUSHION.STYROFOAM 4 4 129 LSPK0084 SHEET,POLYETHYLENE 4 4 242 LSXK0227 DVD UNIT 2 2 303 LSSC0792<		-		
BATTERY COVER				
121 LSPG1920 PACKING CASE, PAPER (A) 4 121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (C) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (A) 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG, OV 125 LSPN0558 FRONT CUSHION, STYROFOAM 4 126 LSPN0559 REAR CUSHION. STYROFOAM 4 127 LSSK0227 DVD UNIT 2 108 LSK0227 DVD UNIT 2 109 LSMA0798 DVD ANGLE 2 100 LSGK0182 BARRIER 2 100 LSGW0182 BARRIER 2 101 LSQL1907 RATING LABEL (A) 2 118 LSQL1856 RATING LABEL (A) 2 119 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 120 LSTW3+5TFN SCREW, STEEL (B) 3				
121 LSPG1946 PACKING CASE, PAPER (B) 4 121 LSPG1941 PACKING CASE, PAPER (C) 4 121 LSPG1944 PACKING CASE, PAPER (C) 4 122 LSQF0907 FAN BAG (A) 4 122 LSQF0908 FAN BAG (B,C) 4 123 EUR7724KEOR INFRARED REMOTE CONTROL UNIT 4 (A) 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG, OV 125 LSPN0558 FRONT CUSHION, STYROFOAM 4 126 LSPN0559 REAR CUSHION. STYROFOAM 4 127 LSXK0227 DVD UNIT 2 128 LSKC227 DVD UNIT 2 109 LSPG0084 SHEET, POLYETHYLENE 4 100 LSMA0798 DVD ANGLE 2 101 LSGK0182 BARRIER 2 103 LSGC0792 DVD SHIELD PLATE 2 104 LSQL1907 RATING LABEL (A) 2 105 LSQL1907 RATING LABEL (A) 2 118 LSQL1856 RATING LABEL (A) 2 119 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 110 PLUG 501 XTW3+5TFN SCREW, STEEL (A , C, F) 3 110 SCREW, STEEL (B) 3				
LSPG1941				
121				
122				
122			i	
122				
EUR7724KEOR				
(A) 123 EUR7724KFOR INFRARED REMOTE CONTROL UNIT 4 (B,C,F) 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG,OV 125 LSPN0558 FRONT CUSHION,STYROFOAM 4 126 LSPN0559 REAR CUSHION.STYROFOAM 4 129 LSPF0084 SHEET,POLYETHYLENE 4 242 LSXK0227 DVD UNIT 2 302 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1856 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3				
(B,C,F) 124 LSJA0418 VHF CONNECTING CABLE 4 W/PLUG,OV 125 LSPN0558 FRONT CUSHION,STYROFOAM 4 126 LSPN0559 REAR CUSHION.STYROFOAM 4 129 LSPF0084 SHEET,POLYETHYLENE 4 242 LSXK0227 DVD UNIT 2 302 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1856 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFN SCREW,STEEL (B) 3				
W/PLUG, OV	123	EUR7724KF0R		4
LSPN0559 REAR CUSHION.STYROFOAM 4	124	LSJA0418		4
129 LSPF0084 SHEET, POLYETHYLENE 4 242 LSXK0227 DVD UNIT 2 302 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW, STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW, STEEL (B) 3	125	LSPN0558	FRONT CUSHION, STYROFOAM	4
242 LSXK0227 DVD UNIT 2 302 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3	126	LSPN0559	REAR CUSHION.STYROFOAM	4
302 LSMA0798 DVD ANGLE 2 303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3	129	LSPF0084	SHEET, POLYETHYLENE	4
303 LSSC0792 DVD SHIELD PLATE 2 304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG SCREW,STEEL (A,C,F) 3 501 XTW3+5TFN SCREW,STEEL (B) 3		LSXK0227	DVD UNIT	
304 LSGK0182 BARRIER 2 309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3				
309 LSJW0093 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 317 LSQL1907 RATING LABEL 2 2 318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3				
PLUG 317				
318 LSQL1856 RATING LABEL (A) 2 318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3			PLUG	
318 LSQL1854 RATING LABEL (B,C,F) 2 319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3				
319 LSJW0091 FLEXIBLE FLAT CABLE W/OUT 2 PLUG 501 XTW3+5TFN SCREW,STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW,STEEL (B) 3		-	· · ·	
PLUG 501 XTW3+5TFN SCREW, STEEL (A,C,F) 3 501 XTW3+5TFJK SCREW, STEEL (B) 3				
501 XTW3+5TFJK SCREW, STEEL (B) 3			PLUG	
⊃∪∠ XTV3+8JFJ SCREW,STEEL 3				
503 XTV3+6JFJ TAPPING SCREW, STEEL 2,3 504 LSHD0104-FJ SCREW, STEEL 3				
504 LSHD0104-FJ SCREW, STEEL 3 505 LSHD0103-FJ SCREW, STEEL 3				
506 XTW3+6TFJ SCREW, STEEL 3				
507 XTV3+10JFJ TAPPING SCREW, STEEL 2				
511 XTV26+5FFJ TAPPING SCREW, STEEL 1,3				
512 VHD1095 SCREW, STEEL 1				
513 VHD1117 SCREW, STEEL 1				
514 XTV26+8FFJ TAPPING SCREW, STEEL 1				
515 VHD1044 SCREW, STEEL 1				1
516 XYN3+C4FJ SCREW, STEEL 1	516	XYN3+C4FJ		1
517 XTN26+7JFJ SCREW, STEEL 1	517	XTN26+7JFJ	SCREW, STEEL	1
520 XTV26+6JFJ SCREW, STEEL 2	520	XTV26+6JFJ	SCREW, STEEL	2
711 PNA4618M14VT INFRARED RECEIVER UNIT 3	711	PNA4618M14VT	INFRARED RECEIVER UNIT	3
712 VMD4258 PHOTO SENSOR HOLDER 3		VMD4258	PHOTO SENSOR HOLDER	
723 LSSC0708 S JACK FCC PLATE 3	723	LSSC0708	S JACK FCC PLATE	3

Ref. No.	Part No.	Part Name & Description	Remarks
741	LSJA0550	AC CORD W/PLUG, AC 120V	з \Lambda
743	ENG56D06G1F	TUNER, UHF/VHF NR	3
751	VWJ1652	FLEXIBLE FLAT CALBE W/OUT PLUG	3
752	VWJ070W210MM	FLEXIBLE FLAT CABLE W/OUT PLUG	3
771	EYF52BCY	FUSE HOLDER	3
E10	LSEP2216HA	MAIN C.B.A. (A,B,C)	3 RTL
E10	LSEP2216HK	MAIN C.B.A. (F)	3 RTL
E11	LSEP2237HA	FRONT JACK C.B.A.	3 RTL
E12	LSEP2230HA	OPERATION LED C.B.A.	3 RTL
E70	LSUQ0080	DVD MAIN C.B.A. (A)	2 RTL
E70	LSUQ0081	DVD MAIN C.B.A. (B,C,F)	2 RTL
E80	LSEP2187A	DVD SUB C.B.A.	2 RTL

SERVICE	FIXTI	IRES	AND.	$R = R \cap R$

Ref. No.	Part No.	Part Name & Description	Remarks
	VFMS0003H6	VHS ALIGNMENT TAPE	MKE
	VFKS0081	GREASE	MKE
	VFK0329	POST ADJUSTMENT DRIVER	MKE
	VFK27	HEAD CLEANING STICK	MKE
	VFK0330	H-POSITION ADJUSTMENT DRIVER	MKE
	VFK1301	SILICONE GREAS	MKE
	DVDT-S01	DVD TEST DISC	SPC
	DVDT-S15	DVD TEST DISC	SPC

11.3. ELECTRICAL REPLACEMENT PARTS LIST

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G

Definition of Parts supplier:

1. All parts are supplied from MKI.

PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E10	LSEP2216HA	MAIN C.B.A. (A,B,C)	E.S.D. RTL
E10	LSEP2216HK	MAIN C.B.A. (F)	E.S.D. RTL
E11	LSEP2237HA	FRONT JACK C.B.A.	RTL
E12	LSEP2230HA	OPERATION LED C.B.A.	RTL
E70	LSUQ0080	DVD MAIN C.B.A. (A)	E.S.D. RTL
E70	LSUQ0081	DVD MAIN C.B.A. (B,C,F)	E.S.D. RTL
E80	LSEP2187A	DVD SUB C.B.A.	RTL

11.3.1. MAIN C.B.A.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC1001	C0CBCDC00052	IC, LINEAR	
IC1002	CNC1S101RLL1	IC, LINEAR	Δ
IC1003	B1AZKD000001	IC, LINEAR	
or IC1003	C0DAEMB00004	IC, LINEAR	
or IC1003	CODAEMZ00005	IC, LINEAR	
IC1004	C0CBCDD00012	IC, LINEAR	
IC1005	C0DBZHG00012	IC, LINEAR	
IC1006	C0DBZGG00010	IC, LINEAR	
IC1301	C0DBZJG00007	IC, LINEAR	
IC1302	C0CBCDC00052	IC, LINEAR	
IC3001	C1AB00002002	IC, LINEAR	
IC3301	C1AB00001731	IC, CMOS STANDARD LOGIC	E.S.D.
IC4201	AN3663FBP-V	IC, LINEAR	
IC6001	C2CBHF000400	IC, 16BIT MICROCONTROLLER	E.S.D.
IC6002	B3NAA0000049	PHOTO INTERRUPUTER	
IC6003	B3NAA0000049	PHOTO INTERRUPUTER	
IC6004	C3EBCC000053	IC, 1K EEP ROM	E.S.D.
IC6005	C0EBH0000263	IC, CMOS STANDARD LOGIC	E.S.D.
IC6201	C1AB00001767	IC, LINEAR	

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q1001	B1DEEQ000007	TRANSISTOR FET	Δ
Q1002	B1DEEQ000007	TRANSISTOR FET	
Q1003	2SC3311A0A	TRANSISTOR SI NPN CHIP	
or Q1003	B1AACF000092	TRANSISTOR SI NPN CHIP	
or Q1003	B1AACF000095	TRANSISTOR SI NPN CHIP	
Q1004	XP0431100L	TRANSISTOR COMPLX CMP SI PNP/NPN CHIP	
Q1005	2SC3311A0A	TRANSISTOR SI NPN CHIP	
or Q1005	B1AACF000092	TRANSISTOR SI NPN CHIP	
or Q1005	B1AACF000095	TRANSISTOR SI NPN CHIP	
Q1013	B1AAGD000016	TRANSISTOR SI NPN CHIP	
Q1014	2SD235800A	TRANSISTOR SI NPN CHIP	
or Q1014	B1AAQB000002	TRANSISTOR SI NPN CHIP	
Q3012	UNR221300L	TRANSISTOR SI NPN CHIP	
or Q3012	B1GBCFNN0004	TRANSISTOR SI NPN CHIP	
Q3030	2SD0601ASL	TRANSISTOR SI NPN CHIP	
Q3060	2SB0709A0L	TRANSISTOR SI PNP CHIP	
or Q3060	B1ADCC000004	TRANSISTOR SI PNP CHIP	
or Q3060	B1ADCF000001	TRANSISTOR SI PNP CHIP	
or Q3060	B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q3200	2SD1819AHL	TRANSISTOR SI NPN CHIP	
or Q3200	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q4101	UNR211100L	TRANSISTOR SI PNP CHIP	

Description	Ref. No.	Part No.	Part Name & Description	Remarks
Q4102 SD1819AHL TRANSISTOR SI NPN CHIP		B1GDCFJJ0002	TRANSISTOR SI PNP CHIP	
Q4102 Q4103 2SD1819AHL		2SD1819AHL	TRANSISTOR SI NPN CHIP	
Q4103		B1ABCF000020	TRANSISTOR SI NPN CHIP	
DIABLE D		2SD1819AHI.	TRANSISTOR ST NPN CHIP	
Q4103				
Q4105 ZSD06020RL		DIMBEL COULT	IMMOIDION DI NIN CIIII	
OT 281ABGD000012 TRANSISTOR SI NPN CHIP Q4105 CT 28D0602ARL TRANSISTOR SI NPN CHIP Q4106 2SB0710AHL TRANSISTOR SI NPN CHIP Q4107 UNR221300L TRANSISTOR SI NPN CHIP Q4107 UNR221300L TRANSISTOR SI NPN CHIP Q4107 UNR221300L TRANSISTOR SI NPN CHIP Q4108 BIGBCFNN0004 TRANSISTOR SI NPN CHIP Q4150 UNR221100L TRANSISTOR SI NPN CHIP Q4150 BIGBCFJJ0002 TRANSISTOR SI NPN CHIP Q4150 UNR511500L TRANSISTOR SI NPN CHIP Q4101 DIRECTION TRANSISTOR SI NPN CHIP Q4101 UNR511500L TRANSISTOR SI NPN CHIP Q4201 UNR511500L TRANSISTOR SI NPN CHIP Q4202 UNR511500L TRANSISTOR SI NPN CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4205 UNR521500L TRANSISTOR SI NPN CHIP Q4206 UNR521500L TRANSISTOR SI NPN CHIP Q4207 UNR521500L TRANSISTOR SI NPN CHIP Q4208 UNR521500L TRANSISTOR SI NPN CHIP Q4209 UNRS21500L TRANSISTOR SI NPN CHIP Q4000 TRANSISTOR SI		2SD06020RL	TRANSISTOR SI NPN CHIP	
Q4105 ZSD0602ARL	-	 		
Q4105 Q4106 Z8B0710AHL TRANSISTOR SI NPN CHIP Q4107 UNR221300L TRANSISTOR SI NPN CHIP Q4107 UNR221300L TRANSISTOR SI NPN CHIP Q4107 UNR221100L TRANSISTOR SI NPN CHIP Q4105 UNR221100L TRANSISTOR SI NPN CHIP Q4150 UNR211500L TRANSISTOR SI NPN CHIP Q4201 UNRS11500L TRANSISTOR SI NPN CHIP Q4201 UNRS11500L TRANSISTOR SI PNP CHIP Q4202 UNRS21500L TRANSISTOR SI PNP CHIP Q4203 UNRS21500L TRANSISTOR SI NPN CHIP Q4254 UNRS21500L TRANSISTOR SI NPN CHIP Q4254 UNRS21500L TRANSISTOR SI NPN CHIP Q4254 UNRS21500L TRANSISTOR SI NPN CHIP Q4255 UNRS21500L TRANSISTOR SI NPN CHIP Q4259 UNRS21500L TRANSISTOR SI NPN CHIP Q6003 Z8D0601A0L TRANSISTOR SI NPN CHIP Q6003 CONTROL TRANSISTOR SI NPN CHIP Q6003 CONTROL CANADISTOR SI NPN CHIP Q6004 TRANSISTOR SI NPN CHIP Q6004 CANADISTOR SI NPN CHIP Q6005 Z8D0709AHL TRANSISTOR SI NPN CHIP CHIP Q6006 CANADISTOR SI NPN CHIP Q6007 CANADISTOR SI NPN CHIP CHIP Q6006 CANADISTOR SI NPN CHIP CHIP Q6007 CANADISTOR SI NPN CHIP CHIP Q6008 Z8D0709AHL TRANSISTOR SI NPN CHIP CHIP Q6008 Z8D0709AHL TRANSISTOR SI NPN CHIP CHIP Q6009 CANADISTOR SI NPN CHIP	Q4105	0.000.000.00		
Q4107 UNR221300L TRANSISTOR SI NPN CHIP OT BIGBCFNN0004 TRANSISTOR SI NPN CHIP Q4150 UNR221100L TRANSISTOR SI NPN CHIP OT BIGBCFJJ0002 TRANSISTOR SI NPN CHIP Q4201 UNR511500L TRANSISTOR SI NPN CHIP Q4201 UNR511500L TRANSISTOR SI PNP CHIP Q4201 UNR511500L TRANSISTOR SI PNP CHIP Q4202 UNRS11500L TRANSISTOR SI PNP CHIP Q4203 UNR521500L TRANSISTOR SI PNP CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4205 UNR521500L TRANSISTOR SI NPN CHIP Q4206 UNR521500L TRANSISTOR SI NPN CHIP Q4207 UNR521500L TRANSISTOR SI NPN CHIP Q4208 UNR521500L TRANSISTOR SI NPN CHIP Q4209 UNR521500L TRANSISTOR SI NPN CHIP Q4200 UNR521500L TRANSISTOR SI NPN CHIP		2SD0602ARL	TRANSISTOR SI NPN CHIP	
DIGBECFNNOOU4	Q4106	2SB0710AHL	TRANSISTOR SI NPN CHIP	
Q4107 Q4150 UNR221100L TRANSISTOR SI NPN CHIP OF BIGBCFJJ0002 Q4150 Q4201 UNR511500L TRANSISTOR SI NPN CHIP Q4201 BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4201 BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4202 UNR511500L TRANSISTOR SI PNP CHIP Q4203 UNR511500L TRANSISTOR SI PNP CHIP Q4204 UNR511500L TRANSISTOR SI PNP CHIP Q4205 TRANSISTOR SI PNP CHIP Q4206 BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4207 BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4208 UNR521500L TRANSISTOR SI NPN CHIP Q4209 UNR521500L TRANSISTOR SI NPN CHIP Q4201 UNR521500L TRANSISTOR SI NPN CHIP Q4202 UNR521500L TRANSISTOR SI NPN CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4205 UNR521500L TRANSISTOR SI NPN CHIP Q4206 UNR521500L TRANSISTOR SI NPN CHIP Q4207 UNR521500L TRANSISTOR SI NPN CHIP Q4208 UNR521500L TRANSISTOR SI NPN CHIP Q4209 UNR521500L TRANSISTOR SI NPN CHIP Q4209 UNR521500L TRANSISTOR SI NPN CHIP Q4209 TRAN	Q4107	UNR221300L	TRANSISTOR SI NPN CHIP	
Or		B1GBCFNN0004	TRANSISTOR SI NPN CHIP	
Q4150 Q4201 UNR511500L TRANSISTOR SI PNP CHIP Or BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4201 BIGDCFJJ0025 TRANSISTOR SI PNP CHIP Q4202 UNR511500L TRANSISTOR SI PNP CHIP Q4202 BIGDCFJJ0025 TRANSISTOR SI PNP CHIP Q4202 BIGDCFJJ0025 TRANSISTOR SI PNP CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 BABCC000004 TRANSISTOR SI NPN CHIP Q6003 BIABCF000011 TRANSISTOR SI NPN CHIP Q6004 SB0709AHL TRANSISTOR SI PNP CHIP Q6004 BIADCF000007 TRANSISTOR SI PNP CHIP Q6005	Q4150	UNR221100L	TRANSISTOR SI NPN CHIP	
Q4201 UNR511500L TRANSISTOR SI PNP CHIP or BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4201 Description TRANSISTOR SI PNP CHIP Q4202 UNR511500L TRANSISTOR SI PNP CHIP Or BIGDCFJJ0025 TRANSISTOR SI PNP CHIP Q4202 Description TRANSISTOR SI PNP CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 Description TRANSISTOR SI NPN CHIP Q6003 BIABCC000001 TRANSISTOR SI NPN CHIP Q6003 BIABCF000011 TRANSISTOR SI PNP CHIP Q6004 Description <td></td> <td>B1GBCFJJ0002</td> <td>TRANSISTOR SI NPN CHIP</td> <td></td>		B1GBCFJJ0002	TRANSISTOR SI NPN CHIP	
STATE		UNR511500L	TRANSISTOR SI PNP CHIP	
000 000	or			
Q4201 Q4202 UNR511500L TRANSISTOR SI PNP CHIP Or BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4202 BIGDCFJJ0025 TRANSISTOR SI PNP CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 B1ABCF000011 TRANSISTOR SI NPN CHIP Q6004 2SB0709AHL TRANSISTOR SI PNP CHIP Q6004 B1ADCF000007 TRANSISTOR SI PNP CHIP Q6005 2SB0709AHL TRANSISTOR SI PNP CHIP Q6006 B1ADCF000007 TRANSISTOR SI PNP CHIP Q6007		D1 GDGT TTCCC	MDANGEGMOD GT DVD	
STATE STAT		BIGDCFJJ0025	TRANSISTOR SI PNP CHIP	
OT Q4202 BIGDCFJA0017 TRANSISTOR SI PNP CHIP Q4202 CTANSISTOR SI PNP CHIP Q4202 Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q5003 S2D0601A0L TRANSISTOR SI NPN CHIP Q5003 CTANSISTOR SI NPN CHIP Q5004 CTANSISTOR SI NPN CHIP Q5005 CTANSISTOR SI NPN CHIP Q5006 CTANSISTOR SI NPN CHIP Q5006 CTANSISTOR SI NPN CHIP Q5006 CTANSISTOR SI NPN CHIP Q5007 CTANSISTOR SI NPN CHIP Q5008 CTANSISTOR SI NPN CHIP	Q4202	UNR511500L	TRANSISTOR SI PNP CHIP	
OT Q4202 Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4255 UNR521500L TRANSISTOR SI NPN CHIP Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q5003 2SD0601A0L TRANSISTOR SI NPN CHIP Q5003 CONTROL Q5004 CONTROL Q5005 CONTROL Q5006 Q	or	†		
Q4203 UNR521500L TRANSISTOR SI NPN CHIP Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 B1ABCF000001 TRANSISTOR SI NPN CHIP Q6003 B1ABCF000016 TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP Q6004 PROPORAHL TRANSISTOR SI PNP CHIP Q6004 TRANSISTOR SI PNP CHIP PROPORAM Q6004 PRADCC000001 TRANSISTOR SI PNP CHIP Q6004 PRADCC000001 TRANSISTOR SI PNP CHIP Q6004 PRADCC000001 TRANSISTOR SI PNP CHIP Q6005 PRADCC000004 TRANSISTOR SI PNP CHIP Q6005 PRADCC000004 TRANSISTOR SI PNP CHIP Q60005 PRADCG000001 TRANSI	or	B1GDCFJJ0025	TRANSISTOR SI PNP CHIP	
Q4204 UNR521500L TRANSISTOR SI NPN CHIP Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 28D0601A0L TRANSISTOR SI NPN CHIP Q6003 2BD0601A0L TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP Q6004 TRANSISTOR SI NPN CHIP Q6004 TRANSISTOR SI PNP CHIP Q6005 TRANSISTOR SI PNP CHIP Q6006 TRANSISTOR SI PNP CHIP Q6005 TRANSISTOR SI PNP CHIP Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOT				
Q4253 UNR521500L TRANSISTOR SI NPN CHIP Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 B1ABCF000016 TRANSISTOR SI NPN CHIP Q6004 2SB0709AHL TRANSISTOR SI PNP CHIP Q6004 B1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 PARTICOLORIA TRANSISTOR SI PNP CHIP Q6005 PARTICOLORIA TRANSISTOR SI PNP CHIP Q6006 PARTICOLORIA TRANSISTOR SI PNP CHIP Q6007 PARASOAMOLYT PHOTO SENSOR Q6008 PARTICOL				
Q4254 UNR521500L TRANSISTOR SI NPN CHIP Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 DOT B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP CHIP Q6003 TRANSISTOR SI NPN CHIP CHIP Q6003 TRANSISTOR SI NPN CHIP CHIP Q6004 2SB0709AHL TRANSISTOR SI PNP CHIP CHIP Q6004 Q6004 TRANSISTOR SI PNP CHIP CHIP Q6005 2SB0709AHL TRANSISTOR SI PNP CHIP CHIP Q6005 Q8007 TRANSISTOR SI PNP CHIP CHIP Q6005 Q8006 TRANSISTOR SI PNP CHIP CHIP Q6005 Q8007 TRANSISTOR SI PNP CHIP CHIP Q6008 Q8009 PNA2604M01VT PHOTO SENSOR Q8008		1		
Q4257 UNR521500L TRANSISTOR SI NPN CHIP Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Q6003 B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 DIABCC0000011 TRANSISTOR SI NPN CHIP Q6003 TRANSISTOR SI NPN CHIP Q6004 PRADCC000004 TRANSISTOR SI PNP CHIP Q6004 PRADCC000004 TRANSISTOR SI PNP CHIP Q6004 PRADCF000001 TRANSISTOR SI PNP CHIP Q6004 PRADCF0000077 TRANSISTOR SI PNP CHIP Q6004 PRADCF0000077 TRANSISTOR SI PNP CHIP Q6005 PRADCF0000001 TRANSISTOR SI PNP CHIP Q6005 PRADCF000001 TRANSISTOR SI PNP CHIP Q6005 PRADCF000001 TRANSISTOR SI PNP CHIP Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 PSD0601A0L TRANSISTOR SI NPN CHIP Q6008 PSB0709AHL TRANSISTOR S	Q4253	UNR521500L	TRANSISTOR SI NPN CHIP	
Q4258 UNR521500L TRANSISTOR SI NPN CHIP Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 DO B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 DO B1ABCF000106 TRANSISTOR SI NPN CHIP Q6003 DO TRANSISTOR SI PNP CHIP Q6004 DSB0709AHL TRANSISTOR SI PNP CHIP Q6005 DO DSB0709AHL TRANSISTOR SI PNP CHIP Q6005 DO B1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 DO B1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 DO B1ADCF000001 TRANSISTOR SI PNP CHIP Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 DS NPN C	Q4254	UNR521500L	TRANSISTOR SI NPN CHIP	
Q4259 UNR521500L TRANSISTOR SI NPN CHIP Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP OT B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 OT B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 OT B1ABCF000106 TRANSISTOR SI NPN CHIP Q6003 Q6004 2SB0709AHL TRANSISTOR SI PNP CHIP Q6004 DSBADCC000004 TRANSISTOR SI PNP CHIP Q6004 Q6004 TRANSISTOR SI PNP CHIP Q6005 Q6006 TRANSISTOR SI PNP CHIP Q6007 B1ADCC000001 TRANSISTOR SI PNP CHIP Q6008 Q6006 PNA2604M01VT PHOTO SENSOR Q6008 QSD0601A0L TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6008 B1ABCC000001 TRANSISTOR SI NPN CHIP Q6008 B1ABCF0000106 TRANSISTOR SI PNP CHIP Q6009	Q4257	UNR521500L	TRANSISTOR SI NPN CHIP	
Q6003 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 Or B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 D1ABCF000016 TRANSISTOR SI NPN CHIP Q6004 D1ABCF000004 TRANSISTOR SI PNP CHIP Q6004 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000007 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000007 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000007 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 Q6005 Q6006 Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 QSD0601A0L TRANSISTOR SI NPN CHIP Q6008 D1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 D1ABCF000011 TRANSISTOR SI NPN CHIP Q6009 D1ABCC0000004 </td <td>Q4258</td> <td>UNR521500L</td> <td>TRANSISTOR SI NPN CHIP</td> <td></td>	Q4258	UNR521500L	TRANSISTOR SI NPN CHIP	
Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6003 Or B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 Or B1ABCF000106 TRANSISTOR SI NPN CHIP Q6003 Q6004 ZSB0709AHL TRANSISTOR SI PNP CHIP OR B1ADCC000001 TRANSISTOR SI PNP CHIP Q6004 OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 OR B1ADCF000007 TRANSISTOR SI PNP CHIP Q6004 OR B1ADCF000007 TRANSISTOR SI PNP CHIP Q6005 OR B1ADCC000004 TRANSISTOR SI PNP CHIP Q6005 OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 ZSD0601A0L TRANSISTOR SI NPN CHIP Q6008 OR B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000010 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000010 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000004 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000106 TRANSISTOR SI PNP CHIP OR B1ADCC000004 TRANSISTOR SI PNP CHIP OR B1ADCC000004 TRANSISTOR SI PNP CHIP OR B1ADCF000001 TRANSISTOR SI PNP CHIP	Q4259	UNR521500L	TRANSISTOR SI NPN CHIP	
Q6003 B1ABCF000011 TRANSISTOR SI NPN CHIP Q6003 B1ABCF000106 TRANSISTOR SI NPN CHIP Q6003 Q6004 ZSB0709AHL TRANSISTOR SI PNP CHIP Q6004 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000077 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000077 TRANSISTOR SI PNP CHIP Q6005 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6005 D1ADCC000001 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000007 TRANSISTOR SI PNP CHIP Q6005 Q6005 PNA2604M01VT PHOTO SENSOR Q60008 Q500601A0L TRANSISTOR SI NPN CHIP Q6008 D1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 D1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 D1ABCF0000106 TRANSISTOR SI NPN CHIP Q6009 D1ABCC000004 TRANSISTOR SI PNP CHIP Q6009 D1ABCC000004 TRANSISTOR SI PNP CHIP	Q6003	2SD0601A0L	TRANSISTOR SI NPN CHIP	
Q6003 Or		B1ABCC000004	TRANSISTOR SI NPN CHIP	
Or		B1ABCF000011	TRANSISTOR SI NPN CHIP	
Q6004 2SB0709AHL TRANSISTOR SI PNP CHIP Or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6004 Or B1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 Q6005 2SB0709AHL TRANSISTOR SI PNP CHIP Q6005 PNACCO00001 TRANSISTOR SI PNP CHIP Q6005 TRANSISTOR SI PNP CHIP Q6006 PNACCO00001 TRANSISTOR SI PNP CHIP Q6007 PNACCO4M01VT PHOTO SENSOR Q6008 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI PNP CHIP OR B1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 TRANSISTOR SI PNP CHIP OR B1ADCC000004 TRANSISTOR SI PNP CHIP OR B1ADCF000001 TRANSISTOR SI PNP CHIP	or	B1ABCF000106	TRANSISTOR SI NPN CHIP	
Or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6004 D1ADCF000077 TRANSISTOR SI PNP CHIP Q6004 Q6004 Q6004 Q6004 D1ADCF000077 TRANSISTOR SI PNP CHIP Q6005 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 Q6005 Q6006 Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP Q6008 D1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 D1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 D1ABCF0000106 TRANSISTOR SI PNP CHIP Q6009 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 D1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 D1ADCC000001 TRANSISTOR SI PNP CHIP		2007002111	MDANGIGMOD GI DND GUID	
Q6004 or		+		
Q6004 or		BIADCC000004	TRANSISTOR SI PNP CHIP	
Q6004 Q6005		B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6005 2SB0709AHL TRANSISTOR SI PNP CHIP Or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6005 D1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 PNA26000077 TRANSISTOR SI PNP CHIP Q6005 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 Or B1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 Or B1ABCF000106 TRANSISTOR SI NPN CHIP Q6009 2SB0709AHL TRANSISTOR SI PNP CHIP Or B1ADCC000004 TRANSISTOR SI PNP CHIP Or B1ADCF000001 TRANSISTOR SI PNP CHIP		B1ADCF000077	TRANSISTOR SI PNP CHIP	
Or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6005 OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 OR B1ADCF000077 TRANSISTOR SI PNP CHIP Q6005 Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP OR B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000016 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000106 TRANSISTOR SI NPN CHIP Q6009 2SB0709AHL TRANSISTOR SI PNP CHIP OR B1ADCC000004 TRANSISTOR SI PNP CHIP OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009 OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009		2SB0709AHL	TRANSISTOR SI PNP CHIP	
Or B1ADCF000001 TRANSISTOR SI PNP CHIP Q6005 OR B1ADCF0000077 TRANSISTOR SI PNP CHIP Q6005 Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP OR B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000016 TRANSISTOR SI NPN CHIP Q6008 OR B1ABCF000106 TRANSISTOR SI NPN CHIP Q6009 2SB0709AHL TRANSISTOR SI PNP CHIP Q6009 OR B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009	or			
Or	or	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q6006 PNA2604M01VT PHOTO SENSOR Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI PNP CHIP Q6009 TRANSISTOR SI PNP CHIP Q6009 TRANSISTOR SI PNP CHIP		B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q6007 PNA2604M01VT PHOTO SENSOR Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI PNP CHIP		DNX 2 6 0 4 M 0 1 1777	DUOTO CENCOP	
Q6008 2SD0601A0L TRANSISTOR SI NPN CHIP Or B1ABCC000004 TRANSISTOR SI NPN CHIP Q6008 TRANSISTOR SI NPN CHIP Q6009 TRANSISTOR SI PNP CHIP				1
Or				1
or B1ABCF000011 TRANSISTOR SI NPN CHIP Q6008 Or B1ABCF000106 TRANSISTOR SI NPN CHIP Q6008 Q6009 2SB0709AHL TRANSISTOR SI PNP CHIP Or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 Or B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009 DADCF000001 TRANSISTOR SI PNP CHIP		+		
Q6008 or	-	B1 ABCEOGOGI 1	TDANGTOTOD OT NOW OUTD	
Q6008 Q6009		PINDCLOUDIT		
Q6009 2SB0709AHL TRANSISTOR SI PNP CHIP or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 or B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009		B1ABCF000106	TRANSISTOR SI NPN CHIP	
or B1ADCC000004 TRANSISTOR SI PNP CHIP Q6009 or B1ADCF000001 TRANSISTOR SI PNP CHIP Q6009	Q6009	2SB0709AHL	TRANSISTOR SI PNP CHIP	
or BlADCF000001 TRANSISTOR SI PNP CHIP		B1ADCC000004	TRANSISTOR SI PNP CHIP	
 	or	B1ADCF000001	TRANSISTOR SI PNP CHIP	
or B1ADCF000077 TRANSISTOR SI PNP CHIP		B1ADCF000077	TRANSISTOR SI PNP CHIP	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D1002	ERZV07Z361CS	SURGE ABSORBER	Δ

Ref. No.	Part No.	Part Name & Description	Remarks
D1004	B0EDKT000009	DIODE SI	Δ
D1012	B0JANK000003	DIODE SI	
D1013	B0JAME000079	DIODE SI	
or D1013	B0JAME000049	DIODE SI	
or D1013	B0JANE000028	DIODE SI	
D1014	B0JANK000003	DIODE SI	
D1015	B0JAME000079	DIODE SI	
or D1015	B0JAME000049	DIODE SI	
or D1015	B0JANE000028	DIODE SI	
D1017	B0HAHP000014	DIODE SI	
or D1017	В0НАЈР000007	DIODE SI	
or D1017	B0HAMP000061	DIODE SI	
D1018	B0JCMD000022	DIODE SI	
D1019	B0HAGM000006	DIODE SI	
D1025	MAZ4130NLF	DIODE ZENER 13V	
D1032	MAZ40360MF	DIODE ZENER 3.6V	
D1033	MA2C165001VT	DIODE SI	
or D1033	B0AACK000004	DIODE SI	
D1034	MA2C165001VT	DIODE SI	
or D1034	B0AACK000004	DIODE SI	
D1035	B0HAHP000014	DIODE SI	
or D1035	вонајрооооо7	DIODE SI	
D1035	B0HAMP000061	DIODE SI	
D1041	MAZ72400AC	DIODE ZENER 24V	⚠
D4201	MA2C165001VT	DIODE SI	
or D4201	B0AACK000004	DIODE SI	
D4202	B0JCMD000022	DIODE SI	
D6001	B3EA00000072	SENSOR LED UNIT	
D6003	MA2C165001VT	DIODE SI	
or D6003	B0AACK000004	DIODE SI	
D6004	MA2C165001VT	DIODE SI	
or D6004	B0AACK000004	DIODE SI	
D6015	MA2C165001VT	DIODE SI	
or D6015	B0AACK000004	DIODE SI	
D6201	MA2C165001VT	DIODE SI	
or D6201	B0AACK000004	DIODE SI	
D6202	MA2C165001VT	DIODE SI	
or D6202	B0AACK000004	DIODE SI	
D6501	MA2C165001VT	DIODE SI	
or D6501	B0AACK000004	DIODE SI	

RESISTORS

		RESISTORS	
Ref. No.	Part No.	Part Name & Description	Remarks
R1001	D0AF275KA001	CARBON 1/2W 2.7M	Δ
R1002	ERDS1FJ474T	CARBON 1/2W 470K	⚠
R1013	ERQ14AJ100P	FUSE 1/4W 10	
R1014	ERJ6GEYJ222V	MGF CHIP 1/10W 2.2K	
R1015	ERJ6GEYJ221V	MGF CHIP 1/10W 220	
R1016	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R1017	D1BD2431A016	CARBON 1/10W 2.43K	
R1018	D0HD222ZA002	CARBON 1/10W 2.2K	
R1019	ERX2SJR27P	METAL FILM 2W 0.27	
R1020	D1BB1242A031	MGF CHIP 12.4K	
R1021	D0HB302ZA002	MGF CHIP 3K	
R1029	ERDS2TJ331	CARBON 1/4W 330	
R1033	ERDS2TJ153	CARBON 1/4W 15K	
R1037	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1042	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R1043	ERJ6GEYJ104V	MGF CHIP 1/10W 100K	
R1045	ERDS2TJ102	CARBON 1/4W 1K	

Ref.	Part No.	Part Name & Description	Remarks
No. R1046	ERDS2TJ105T	CARBON 1/4W 1M	
R1047	ERDS2TJ105T	CARBON 1/4W 1M	1
R1050	ERDS2TJ272	CARBON 1/4W 2.7K	
R1051	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R1052	ERG1SJ331P	METAL OXIDE 1W 330	
R1053	ERJ3GEYJ2R2V	CARBON 1/16W 2.2	
R1054	ERJ6GEYJ330V	MGF CHIP 1/10W 33	
R1055	ERDS2TJ101	CARBON 1/4W 100	
R1056	ERDS2TJ222T	CARBON 1/4W 2.2K	
R1057	ERDS2TJ332T	CARBON 1/4W 3.3K	
R1058	ERDS2TJ682T	CARBON 1/4W 6.8K	
R1059	ERDS2TJ102	CARBON 1/4W 1K	
R1060	ERDS2TJ680T	CARBON 1/4W 68	
R1061	ERDS2TJ123T	CARBON 1/4W 12K	
R1062	ERDS2TJ123T	CARBON 1/4W 12K	
R1201	ERJ3GEYJ123V	MGF CHIP 1/16W 12K	
R3008	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3009	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R3011	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R3012	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R3016	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R3017	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R3018	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R3022	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R3028	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R3029	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R3036	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3041	ERJ3GEYJ685V	MGF CHIP 1/16W 6.8M	
R3042	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R3060	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3066	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3070	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R3080	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R3100	ERDS2TJ750T	CARBON 1/4W 75	
R3101	ERDS2TJ750T	CARBON 1/4W 75	
R3108	ERJ3GEYJ750V	CARBON 1/16W 75	
R3109	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R3110	ERDS2TJ750T	CARBON 1/4W 75	
R3114	ERDS2TJ750T	CARBON 1/4W 75	
R3115	ERDS2TJ750T	CARBON 1/4W 75	
R3116	ERDS2TJ750T	CARBON 1/4W 75	
R3117	ERDS2TJ750T	CARBON 1/4W 75	
R3201	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R3202	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3203	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R3301	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4003	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R4004	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4079	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4092	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4093	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R4094	ERJ3GEYJ334V	MGF CHIP 1/16W 330K	
R4097	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R4098	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R4101	ERJ3GEYJ113V	MGF CHIP 1/16W 11K (A,B,C)	
R4101	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K (F)	
R4102	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4103	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4106	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R4107	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R4108	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R4109	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R4201	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R4202	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R4203	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R4204	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
D4200	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R4209	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R4209 R4210			
	ERJ3GEYJ362V	MGF CHIP1/16W 3.6K	
R4210	ERJ3GEYJ362V ERJ3GEYJ362V	MGF CHIP1/16W 3.6K MGF CHIP1/16W 3.6K	
R4210 R4211			
R4210 R4211 R4213	ERJ3GEYJ362V	MGF CHIP1/16W 3.6K	

Ref.	Part No.	Dont Name & Description	Remarks
No.	Part No.	Part Name & Description	Kemarks
R4220	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
		MGF CHIP 1/16W 8.2K	
R4225	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R4230	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R4231	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R4236	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R4237	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R4253	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4254		MGF CHIP 1/16W 39K	
R4255	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R4257	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4259		MGF CHIP 1/16W 1K	
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R4262		MGF CHIP 1/16W 10K	
R4263	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R4264	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4265	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R4553	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4554	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R4557	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R4558	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R4606		MGF CHIP 1/16W 100	
R4802	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R6007		MGF CHIP 1/16W 330	
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R6008		MGF CHIP 1/16W 1K	
R6009	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6010	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R6011	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6013	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6014	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6015	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6016	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R6017	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
		·	
R6018	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R6019		MGF CHIP 1/16W 220	
R6020	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6022	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6024	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6025	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6027	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R6028	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6029	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R6034	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6035	ERJ3GEYJ223V	MGF CHIP 1/16W 22K (A,B,C)	
R6039	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6047	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6050	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6051	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6053	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6054	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R6056	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R6058	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6060	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R6061	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6062	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
		MGF CHIP 1/16W 1K	
R6063	ERJ3GEYJ101V		
R6064	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6067	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R6068	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6069	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6070	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6071	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6072	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6075	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6078	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6084	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
R6086	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R6087	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R6089	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6094	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R6100	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6107	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R6108	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R6109	ERDS2TJ151T	CARBON 1/4W 150	
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Ref.	Part No.	Part Name & Description	Remarks
	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R6115		MGF CHIP 1/16W 27K	
R6116		CARBON 1/4W 120	
R6135		MGF CHIP 1/16W 22K (F)	
R6156		MGF CHIP 1/16W 1M	
R6158		MGF CHIP 1/16W 2.2K	
R6166		MGF CHIP 1/16W 4.7K	
R6167		MGF CHIP 1/16W 4.7K	
R6171		MGF CHIP 1/16W 5.6K	
R6172		MGF CHIP 1/16W 5.6K	
R6202		MGF CHIP 1/16W 10K	
R6203		MGF CHIP 1/16W 10K	
R6204	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R6205		MGF CHIP 1/16W 1K	
R6215		MGF CHIP 1/16W 100	
R6216		MGF CHIP 1/16W 1K	
R6217	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R6219	ERJ3GEYJ1R5V	CARBON 1/16W 1.5	
R6220	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R6222	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R6223	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R6224	ERJ3GEYJ1R2V	CARBON 1/16W 1.2	
R6225	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R6227	ERDS2TJ473T	CARBON 1/4W 47K	
R6311	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6312	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6313	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R6314	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	
R6321	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6322	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6323	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R6324	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	
R6331	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6332	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6333	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R6341	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6342	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6415	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6501	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R6502	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R6503	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R6504	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6505	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R6506	ERDS2TJ560T	CARBON 1/4W 56	
R6507	ERJ3GEYJ475V	MGF CHIP 1/16W 4.7M	
R6508	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R6509	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R6510	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R7004	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R7007	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R7011	ERJ3GEYJ221V	MGF CHIP 1/16W 220	

		CAPACITORS	
Ref. No.	Part No.	Part Name & Description	Remarks
C1001	ECA1HHG470I	ELECTROLYTIC 50V 47UF	
C1004	F0CAF334A021	POLYESTER 125V 0.33UF	\triangle
C1005	F0CAF334A021	POLYESTER 125V 0.33UF	\triangle
C1006	F1H1C104A065	C CHIP 16V 0.1UF	
C1007	F2A2D1210003	ELECTROLYTIC 200V 120UF	\triangle
C1008	F1H1C104A065	C CHIP 16V 0.1UF	
C1023	ECJ2VC1H101J	C CHIP 50V 100PF	
C1024	EEUFF0J122B	ELECTROLYTIC 6.3V 1200UF	
C1025	EEUFF1E471B	ELECTROLYTIC 25V 470UF	
C1026	ECA1HHG470I	ELECTROLYTIC 50V 47UF	
C1027	EEUFF0J122B	ELECTROLYTIC 6.3V 1200UF	
C1028	F2A1E3310040	ELECTROLYTIC 25V 330UF	
C1029	ECA1HHG470I	ELECTROLYTIC 50V 47UF	
C1030	ECJ2YB1H104K	C CHIP 50V 0.1UF	
C1031	EEUFF1A471B	ELECTROLYTIC 10V 470UF	
C1033	F2A1E3310040	ELECTROLYTIC 25V 330UF	
C1034	F2A1E3310040	ELECTROLYTIC 25V 330UF	
C1035	F2A1E3310040	ELECTROLYTIC 25V 330UF	
C1036	ECJ1VB1C105K	C CHIP 16V 1UF	

Ref.	Part No.	Part Name & Description	Remarks
C1037	F2A1E3310040	ELECTROLYTIC 25V 330UF	
C1038	F1J1C1050011	C CHIP 16V 1UF	
C1039	F1J1C1050011	C CHIP 16V 1UF	
C1040	ECA1VHG101I	ELECTROLYTIC 35V 100UF	
C1041	ECA1HHG470I	ELECTROLYTIC 50V 47UF	
C1043	ECJ1VB1C105K	C CHIP 16V 1UF	
C1045	EEUFF1A221H	ELECTROLYTIC 10V 220UF	
C1046	ECEA1HKAR47	ELECTROLYTIC 50V 0.47UF	
C1047	ECJ2YB1H104K	C CHIP 50V 0.1UF ELECTROLYTIC 16V 22UF	
C1051 C1057	ECEA1CKA220 ECEA0JEE101	ELECTROLYTIC 6.3V 100UF	
C1065	F1BAH4720013	C CHIP 250V 4700PF	\triangle
C1072	ECKN3A272KBP	C CHIP 1KV 2700PF	-
C1073	ECKN3A271KBP	C CHIP 1KV 270PF	
C1074	ECQB1H223JF3	POLYESTER 50V 0.022UF	
C1075	ECQB1H103JF3	POLYESTER 50V 0.01UF	
C1076	ECQB1H473KF3	POLYESTER 50V 0.047UF	
C1077	ECQB1H104JF3	POLYESTER 50V 0.1UF	
C1301 C1302	F1J1C474A059 F1H1A105A025	C CHIP 16V 0.47UF	
C3007	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3008	ECJ1VC1H151J	C CHIP 50V 150PF	
C3010	F1H1C104A041	C CHIP 16V 0.1UF	
C3011	F1H1C104A041	C CHIP 16V 0.1UF	
C3012	ECJ1VC1H330J	C CHIP 50V 33PF	
C3014	F1H1C104A041	C CHIP 16V 0.1UF	
C3015 C3017	F1H1C104A041 ECJ1VB0J105K	C CHIP 16V 0.1UF C CHIP 6.3V 1UF	
C3017	ECEA1HKA4R7	ELECTROLYTIC 50V 4.7UF	
C3019	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C3021	F1H1A224A025	C CHIP 10V 0.22UF	
C3022	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3023	F1H1C104A041	C CHIP 16V 0.1UF	
C3024	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C3029 C3030	F1H1C104A041 F1H1C104A041	C CHIP 16V 0.1UF	
C3030	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C3033	F1H1C104A041	C CHIP 16V 0.1UF	
C3036	F1H1C104A041	C CHIP 16V 0.1UF	
C3037	F1H1C104A041	C CHIP 16V 0.1UF	
C3039	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	
C3040 C3041	ECEA1CKA100 F1H1E103A029	C CHIP 25V 0.01UF	
C3042	ECJ1VF1H103Z	C CHIP 50V 0.01UF	
C3046	ECJ1VC1H331J	C CHIP 50V 330PF	
C3049	F1H1E103A029	C CHIP 25V 0.01UF	
C3050	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3051	ECJ1VB1A224K	C CHIP 10V 0.22UF	
C3052	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C3053	ECJ1VF1H103Z ECJ1VF1H103Z	C CHIP 50V 0.01UF	
C3054	F1H1A105A025	C CHIP 10V 1UF	
C3059	ECJ1VC1H020C	C CHIP 50V 2PF	
C3060	ECJ1VF1E104Z	C CHIP 25V 0.1UF	
C3061	F1H1H102A219	C CHIP 50V 0.001UF	
C3062	F1H1C104A041	C CHIP 16V 0.1UF	
C3064	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	
C3065 C3066	F1H1H472A219	C CHIP 50V 4700PF	
C3068	ECJ1VB1E333K	C CHIP 25V 0.033UF	
C3069	ECJ1VB0J474K	C CHIP 6.3V 0.47UF	
C3070	F1H1E223A029	C CHIP 25V 0.022UF	
C3075	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C3083	ECJ1VF1E104Z	C CHIP 25V 0.1UF	
C3202	F1H1C104A041	C CHIP 16V 0.1UF	
C3301 C3302	ECEA1CKA100 ECJ1VF1E104Z	C CHIP 25V 0.1UF	
C3302	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3304	F2A0J471A283	ELECTROLYTIC 6.3V 470UF	
C3305	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C3306	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4000	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C4005	ECEA1CKA100	ELECTROLYTIC 16V 10UF	_

Ref.	Part No.	Part Name & Description	Remarks
C4081	ECJ1VC1H150J	C CHIP 50V 15PF	
C4082	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	
C4085	ECJ1VB1H182K	C CHIP 50V 0.0018UF	
C4091	ECJ1VF1E104Z	C CHIP 25V 0.1UF	
C4092	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C4093	ECJ1VB1H102K	C CHIP 50V 1000PF	
C4094	ECEA1HKA2R2	ELECTROLYTIC 50V 2.2UF	
C4095 C4096	ECJ1VB1H103K ECEA1CKA330B	C CHIP 50V 0.01UF ELECTROLYTIC 16V 33UF	
C4097	ECJ1VB1H182K	C CHIP 50V 0.0018UF	
C4098	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4100	ECQB1H333JF3	POLYESTER 50V 0.033UF	
C4101	ERJ3GEYJ113V	MGF CHIP 1/16W 11K (F)	
C4101	F1H1H471A789	C CHIP 50V 470PF (A,B,C)	
C4102	ECJ1VB1H182K	C CHIP 50V 0.0018UF	
C4103	F1H1E223A029	C CHIP 25V 0.022UF	
C4104	ECEA0JKA470I	ELECTROLYTIC 6.3V 47UF	
C4201	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4202	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C4203	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4204	F1H1C104A008	C CHIP 16V 0.1UF	1
C4205	F1H1C104A041	C CHIP 16V 0.1UF	1
C4206	ECEA1CKA100	ELECTROLYTIC 16V 10UF	+
C4207 C4208	ECEA1EKA4R7 ECEA1CKA100	ELECTROLYTIC 25V 4.7UF ELECTROLYTIC 16V 10UF	
C4212	ECEAICKAIUU ECEA1EKA4R7	ELECTROLYTIC 16V 100F ELECTROLYTIC 25V 4.7UF	
C4212	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4216	ECEA0JKA330	ELECTROLYTIC 6.3V 33UF	
C4217	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4218	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4219	ECJ1VB1E153K	C CHIP 25V 0.015UF	
C4220	F1H1C104A041	C CHIP 16V 0.1UF	
C4222	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C4224	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C4226	F1H1C104A041	C CHIP 16V 0.1UF	
C4231	ECJ1VF1C224Z	C CHIP 16V 0.22UF	
C4232	ECJ1VB1E153K	C CHIP 25V 0.015UF	
C4233	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4234	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4235	ECEA0JKA330 ECEA0JKA470	ELECTROLYTIC 6.3V 33UF	
C4240 C4244	ECEAUJKA470 ECEA1HKA2R2	ELECTROLYTIC 6.3V 47UF ELECTROLYTIC 50V 2.2UF	
C4245	ECJ1VF1H103Z	C CHIP 50V 0.01UF	
C4246	F1H1C104A041	C CHIP 16V 0.1UF	
C4247	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	
C4248	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C4249	F1H1C104A041	C CHIP 16V 0.1UF	
C4250	F1H1C104A041	C CHIP 16V 0.1UF	
C4252	F1H1E223A029	C CHIP 25V 0.022UF	
C4253	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4254	ECEA1HKA010	ELECTROLYTIC 50V 1UF	
C4257	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4258	ECEA1CKA101	ELECTROLYTIC 16V 100UF	1
C4259	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4260	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	+
C4261 C4262	ECEA1CKA100 ECEA1HKA010	ELECTROLYTIC 16V 10UF ELECTROLYTIC 50V 1UF	+
C4262	F1H1E223A029	C CHIP 25V 0.022UF	+
C4264	ECEA1HKA3R3	ELECTROLYTIC 50V 3.3UF	+
C4553	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4557	ECEA1CKA100	ELECTROLYTIC 16V 10UF	1
C4606	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C4607	F1H1H152A219	C CHIP 50V 1500PF	
C4801	F1H1C104A041	C CHIP 16V 0.1UF	
C4802	ECEA1EKA4R7	ELECTROLYTIC 25V 4.7UF	
C4803	ECJ1VC1H270J	C CHIP 50V 27PF	
C5083	F1H1C104A041	C CHIP 16V 0.1UF	
C5084	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	1
	ECJ1VB1E103K	C CHIP 25V 0.01UF	1
C5085			
C5087	ECJ1VB1E103K	C CHIP 25V 0.01UF	
C5087 C5089	ECJ1VB1E103K	C CHIP 25V 0.01UF	
C5087			

		PV-D4735S / PV-D4745 / PV-D4	7455 / PV-D
Ref. No.	Part No.	Part Name & Description	Remarks
C6037	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6038	ECJ1VC1H180J	C CHIP 50V 18PF	
C6039	ECJ1VC1H220J	C CHIP 50V 22PF	
C6044	ECJ1VC1H101J	C CHIP 50V 100PF	
C6045	ECJ1VC1H820J	C CHIP 50V 82PF	
C6047	ECJ1VB1H471K	C CHIP 50V 470PF	
-			
C6048	ECJ1VC1H270J ECJ1VF1H104Z	C CHIP 50V 27PF	
		C CHIP 50V 0.1UF	
C6053	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6054	F1H1H102A219	C CHIP 50V 0.001UF	
C6055	F1H1H102A219	C CHIP 50V 0.001UF	
C6056	ECJ1VC1H561J		
C6071	ECJ1VC1H101J	C CHIP 50V 100PF	
C6072	ECJ1VC1H101J	C CHIP 50V 100PF	
C6078	ECJ1VF1H103Z	C CHIP 50V 0.01UF	
C6082	F1H1C104A041	C CHIP 16V 0.1UF	
C6086	ECJ1VC1H330J	C CHIP 50V 33PF	
C6092	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C6094	ECJ1VC1H681J	C CHIP 50V 680PF	
C6096	ECEA0JKN220I	ELECTROLYTIC 6.3V 22UF	
C6097	ECJ1VB1H392K	C CHIP 50V 3900PF	
C6098	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6101	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6110	ECJ1VF1H104Z	C CHIP 50V 0.1UF	
C6111	ECJ1VF1H104Z	C CHIP 50V 0.1UF	
C6137	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6147	ECJ1VF1H103Z	C CHIP 50V 0.01UF	
C6153	ECJ1VF1H104Z	C CHIP 50V 0.1UF	
C6154	ECJ1VB1H333K	C CHIP 50V 0.033UF	
C6156	ECJ1VF1A105Z	C CHIP 10V 1UF	
C6201	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C6202	ECJ1VB1C563K	C CHIP 16V 0.056UF	
C6203	ECJ1VB1C563K	C CHIP 16V 0.056UF	
C6204	ECJ1VB1C563K	C CHIP 16V 0.056UF	
C6205	ECJ1VB1C563K	C CHIP 16V 0.056UF	
C6206	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C6207	F2A1E2210040	ELECTROLYTIC 25V 220UF	
C6208	ECJ2VB1E104K	C CHIP 25V 0.1UF	
C6209	F1H1A224A025	C CHIP 10V 0.22UF	
C6210	F1H1E223A029	C CHIP 25V 0.022UF	
C6211	F1H1E223A029	C CHIP 25V 0.022UF	
C6212	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C6213	ECJ1VB1H102K	C CHIP 50V 1000PF	
C6215	F1H1H102A219	C CHIP 50V 0.001UF	
C6216	ECJ1VF1A105Z	C CHIP 10V 1UF	
C6217	ECJ1VB1H182K	C CHIP 50V 0.0018UF	
C6219	ECJ1VF1H104Z	C CHIP 50V 0.1UF	
C6221	ECEA1CKA101	ELECTROLYTIC 16V 100UF	
C6222	F1H1C104A041	C CHIP 16V 0.1UF	
C6223	F1H1C104A041	C CHIP 16V 0.1UF	
C6224	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C6225	F1H1C104A041	C CHIP 16V 0.1UF	
C6227	ECJ1VF1A105Z	C CHIP 10V 1UF	
C6408	ECJ1VF1H104Z	C CHIP 50V 0.1UF	
C6501	ECJ1VF1E104Z	C CHIP 25V 0.1UF	
C6506	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C7005	ECJ1VB1H102K	C CHIP 50V 1000PF	
C7006	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C7011	ECJ1VC1H270J	C CHIP 50V 27PF	
C7012	ECJ1VC1H270J	C CHIP 50V 27PF	
C7017	ECJ1VB1H102K	C CHIP 50V 1000PF	
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COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L1001	G0B183E00002	LINE FILTER 0.5A 18MH	\triangle
L1004	G0A100HA0023	COIL 10UH	
L1005	G0A220GA0026	COIL 22UH	
L1006	G0A100HA0023	COIL 10UH	
L1008	G0A220GA0026	COIL 22UH	
L1010	J1ZZA0000001	RESONANT SNUBBER	
L1011	J0JHC0000031	EMI FILTER CHIP	
L1012	J0JHC0000031	EMI FILTER CHIP	
L1013	J0JHC0000031	EMI FILTER CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
L3012	G0C271JA0019	COIL 270UH	
L3018	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
L3059	G1C120JA0036	COIL 12UH	
L3300	G0C101KA0030	COIL 100UH	
L3301	G0C150KA0045	COIL 15UH	
L3302	G0C680KA0045	COIL 68UH	
L3303	G0C330KA0045	COIL 33UH	
L4101	G0C221JA0021	COIL 220UH	
L4201	G0C101KA0030	COIL 100UH	
L4801	G0C220K00008	COIL 22UH	
L4804	J0JCC0000160	EMI FILTER CHIP	
L5084	G0C560KA0045	COIL 56UH	
L6002	G0C4R7JA0019	COIL 4.7UH	
L6003	G0C680KA0045	COIL 68UH	
L6004	G0C101KA0045	COIL 100UH	
L7016	G0C101KA0045	COIL 100UH	

CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks
X3001	H0D357400068	CRYSTAL OSCILLATOR	
X6001	H0D120500017	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P1002	LSEK0642	CONNECTOR CABLE W/PLUG	
P3501	LSEK0540	GROUNDING WIRE	
P4001	K1MZ02A00003	FE CONNECTOR 2P	
P4002	K1MN06A00030	CONNECTOR 6P	
P5001	K1MN24A00057	CONNECTOR 24P	
P5002	K1MN09A00029	CONNECTOR 9P	
P6201	K1KA08A00290	CONNECTOR 8P	
P6202	K1KA02A00375	CONNECTOR 2P	
P6203	K1MN07A00020	CONNECTOR 7P	

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW6001	K0ZZ00000598	SWITCH	
SW6002	K0C111A00006	SWITCH	
SW6312	EVQ11A09K	SWITCH PUSH	
SW6313	EVQ11A09K	SWITCH PUSH	
SW6314	EVQ11A09K	SWITCH PUSH	
SW6321	EVQ11A09K	SWITCH PUSH	
SW6322	EVQ11A09K	SWITCH PUSH	
SW6323	EVQ11A09K	SWITCH PUSH	
SW6324	EVQ11A09K	SWITCH PUSH	
SW6331	EVQ11A09K	SWITCH PUSH	
SW6332	EVQ11A09K	SWITCH PUSH	
SW6333	EVQ11A09K	SWITCH PUSH	

FUSE & PROTECTOR

		JSE & PRUIECIUR	
Ref.	Part No.	Part Name & Description	Remarks
No.			
F1001	K5D302AQ0003	FUSE 125V 3A	\triangle
PR1003	UNH000600A	IC PROTECTOR 1.5A	⚠
or	D4FA2R50A002	IC PROTECTOR 1.5A	\triangle
PR1003			
PR1004	UNH000600A	IC PROTECTOR 1.5A	\triangle
or	D4FA2R50A002	IC PROTECTOR 1.5A	\triangle
PR1004			
PR1005	UNH000600A	IC PROTECTOR 1.5A	\triangle
or	D4FA2R50A002	IC PROTECTOR 1.5A	Δ
PR1005			
PR1007	UNH000600A	IC PROTECTOR 1.5A	\triangle
or	D4FA2R50A002	IC PROTECTOR 1.5A	Δ
PR1007			

TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remarks
T1001	LSTP0128	SW TRANSFORMER	Δ
T4101	G2A472C00003	TRANSFORMER	

		JACKS	
Ref.	Part No.	Part Name & Description	Remarks
No.			
JK3001	K2HA612B0035	AUDIO/VIDEO JACK SOCKET	
JK3003	K2HZ105B0007	S-VHS JACK SOCKET	
JK3004	K2HA507B0003	AUDIO/VIDEO JACK SOCEKT	
JK4801	B3RAE0000030	IC, LINEAR	

PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E11	LSEP2237HA	FRONT JACK C.B.A.	RTL
E12	LSEP2230HA	OPERATION LED C.B.A.	RTL

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
712	VMD4258	PHOTO SENSOR HOLDER	
723	LSSC0708	S JACK FCC PLATE	
741	LSJA0550	AC CORD W/PLUG, AC 120V	\triangle
743	ENG56D06G1F	TUNER, UHF/VHF NR	
771	EYF52BCY	FUSE HOLDER	

11.3.2. FRONT JACK C.B.A.

RESISTORS

Ref.	Part No.	Part Name & Description	Remarks
No.			
R3102	ERJ3GEYJ750V	CARBON 1/16W 75	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P4591	LSJWD7S075AA	CONNECTOR CABLE W/OUT PLUG	

SWITCHES

Ref.	Part No.	Part Name & Description	Remarks	
No.				
SW6311	EVQ21405R	SWITCH PUSH		

JACKS

Ref.	Part No.	Part Name & Description	Remarks
No.			
JK3002	K2HA306A0023	AUDIO/VIDEO JACK SOCKET	

11.3.3. OPERATION LED C.B.A.

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q6301	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q6302	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q6303	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q6304	2SD0601ARL	TRANSISTOR SI NPN CHIP	
Q6305	2SD0601ARL	TRANSISTOR SI NPN CHIP	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D6311	B3ABA0000452	LED GREEN	
D6312	B3AAA0000721	LED RED	
D6313	B3AFA0000065	LED YELLOW	
D6314	B3AFA0000065	LED YELLOW	
D6315	B3ABA0000452	LED GREEN	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R6301	ERJ6GEYJ301V	MGF CHIP 1/10W 300	
R6302	ERJ6GEYJ301V	MGF CHIP 1/10W 300	
R6303	ERJ6GEYJ301V	MGF CHIP 1/10W 300	
R6304	ERJ6GEYJ301V	MGF CHIP 1/10W 300	
R6305	ERJ6GEYJ301V	MGF CHIP 1/10W 300	
R6307	ERDS2TJ3R3	CARBON 1/4W 3.3	
R6308	ERJ6GEYJ470V	MGF CHIP 1/10W 47	

CAPACITORS

	07.11.71.011.0				
Ref. No.	Part No.	Part Name & Description	Remarks		
C6303	ECJ1VF1E104Z	C CHIP 25V 0.1UF			

Ref. No.	Part No.	Part Name & Description	Remarks
C6304	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C6307	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	

COILS

00.20			
Ref. No.	Part No.	Part Name & Description	Remarks
L6302	G0C270KA0045	COIL 27UH	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P6302	LSJWDAS055AA	CONNECTOR CABLE W/OUT PLUG	

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
711	PNA4618M14VT	INFRARED RECEIVER UNIT	

11.3.4. DVD MAIN C.B.A.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D4735S	Α
PV-D4745	В
PV-D4745S	С
	D
	E
PV-D4745S-K	F
	G

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC8001	MN2DS03VP1H	IC, SYSTEM LSI	E.S.D.
IC8002	LSSK0058	IC, 16M FLASH MEMORY	E.S.D.
IC8003	C3ABPG000142	IC, 64M D RAM	E.S.D.
or IC8003	C3ABPG000133	IC, 64M SDRAM	E.S.D.
IC8004	LSSK0056	IC, 4K EEPROM	E.S.D.
IC8005	CODBEZG00017	IC, LINEAR	
IC8401	C9ZB00000461	IC, LINEAR	
IC8501	C0FBBK000035	IC, LINEAR	
IC8503	C0ABBB000256	IC, LINEAR	
IC8801	C0GBG0000054	IC, LINEAR	

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q8504	UNR521500L	TRANSISTOR SI NPN CHIP	
or Q8504	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	
or Q8504	B1GBCFJA0013	TRANSISTOR SI NPN CHIP	
Q8505	UNR521500L	TRANSISTOR SI NPN CHIP	
or Q8505	B1GBCFJA0006	TRANSISTOR SI NPN CHIP	
or Q8505	B1GBCFJA0013	TRANSISTOR SI NPN CHIP	
Q8901	2SD1819A0L	TRANSISTOR SI NPN CHIP	
or Q8901	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q8902	2SD1819A0L	TRANSISTOR SI NPN CHIP	
or Q8902	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q8903	2SB0709A0L	TRANSISTOR SI PNP CHIP	
or Q8903	B1ADCC000004	TRANSISTOR SI PNP CHIP	
or Q8903	B1ADCF000001	TRANSISTOR SI PNP CHIP	
or Q8903	B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q8904	2SB0709A0L	TRANSISTOR SI PNP CHIP	

		PV-D4735S / PV-D4745 / PV-D4	745S / PV-D
Ref. No.	Part No.	Part Name & Description	Remarks
or Q8904	B1ADCC000004	TRANSISTOR SI PNP CHIP	
or Q8904	B1ADCF000001	TRANSISTOR SI PNP CHIP	
or Q8904	B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q8905	UNR521100L	TRANSISTOR SI NPN CHIP	
or Q8905	B1GBCFJJ0001	TRANSISTOR SI NPN CHIP	
or Q8905	B1GBCFJJ0007	TRANSISTOR SI NPN CHIP	
or Q8905	B1GBCFJJ0035	TRANSISTOR SI NPN CHIP	
Q8906	UNR511500L	TRANSISTOR SI PNP CHIP	
or Q8906	B1GDCFJA0017	TRANSISTOR SI PNP CHIP	
or Q8906	B1GDCFJJ0025	TRANSISTOR SI PNP CHIP	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D8001	MA2J111008	DIODE SI	
or D8001	B0ACCK000005	DIODE SI	
or D8001	MA2J11100L	DIODE SI	

RESISTORS

Ref.	Part No.	RESISTORS Part Name & Description	Remarks
No.	rait No.	rait Name & Description	Kemarks
R8001	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8004	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8005	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8006	EXB38V820JV	ARRAY CHIP 82	
R8007	EXB38V820JV	ARRAY CHIP 82	
R8008	EXB38V820JV	ARRAY CHIP 82	
R8009	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8012	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8015	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R8016	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R8017	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R8019	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R8020	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8021	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R8023	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8024	EXB38V820JV	ARRAY CHIP 82	
R8025	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8026	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8027	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8028	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8029	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8030	ERJ3GEYJ270V	MGF CHIP 1/16W 27	
R8031	ERJ3GEYJ103V	MGF CHIP 1/16W 10K (B,C,F)	
R8032	ERJ3GEYJ103V	MGF CHIP 1/16W 10K (A)	
R8033	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8034	EXB38V820JV	ARRAY CHIP 82	
R8035	EXB38V820JV	ARRAY CHIP 82	
R8036	EXB38V820JV	ARRAY CHIP 82	
R8037	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8038	ERA3YED273V	CARBON 1/16W 27K	
R8039	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R8040	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8041	ERA3YED221V	CARBON 1/16W 220	
R8042	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8043	ERA3YED332V	CARBON 1/16W 3.3K	
R8044	ERA3YED151V	CARBON 1/16W 150	
R8046	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8047	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8048	ERA3YED822V	CARBON 1/16W 8.2K	
R8049	ERJ3GEYJ101V	MGF CHIP 1/16W 100	-
R8051	EXB38V820JV	ARRAY CHIP 82	-
R8052		MGF CHIP 1/16W 8.2K	
R8053	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R8056	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8057	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	

85S / PV-D4745 / PV-D4745S / PV-D4745S-K				
Ref. No.	Part No.	Part Name & Description	Remarks	
R8058	ERJ3GEYJ102V	MGF CHIP 1/16W 1K		
R8059	ERJ1TYJ4R7U	MGF CHIP 1W 4.7		
R8060	ERA3YED103V	CARBON 1/16W 10K		
R8061	ERA3YED202V	CARBON 1/16W 2K		
R8065	ERJ3GEYJ6R8V	MGF CHIP 1/16W 6.8		
R8066	ERJ3GEYJ101V	MGF CHIP 1/16W 100		
R8067	ERJ3GEYJ101V	MGF CHIP 1/16W 100		
R8068	ERJ3GEYJ101V	MGF CHIP 1/16W 100		
R8071	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8418	ERA3YED121V	CARBON 1/16W 120		
R8419	ERA3YED121V	CARBON 1/16W 120		
R8420	ERA3YED121V	CARBON 1/16W 120		
R8421	ERA3YHD560V	CARBON 1/16W 56		
R8422	ERA3YHD560V	CARBON 1/16W 56		
R8423	ERA3YHD680V	CARBON 1/16W 68		
R8424	ERA3YHD680V	CARBON 1/16W 68		
R8425	ERA3YHD680V	CARBON 1/16W 68		
R8426	ERA3YHD330V	CARBON 1/16W 33		
R8427	ERA3YHD330V	CARBON 1/16W 33		
R8501		MGF CHIP 1/16W 22K		
R8502	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8503	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8504	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8518	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K		
R8520	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K		
R8533	ERJ3GEYF163V	MGF CHIP 1/16W 16K		
R8534	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K		
R8535	ERJ3GEYF163V	MGF CHIP 1/16W 16K		
R8536	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K		
R8557	ERJ3GEYJ471V	MGF CHIP 1/16W 470		
R8558	ERJ3GEYJ471V	MGF CHIP 1/16W 470		
R8565	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R8566	ERJ3GEYJ102V	MGF CHIP 1/16W 1K		
R8567	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R8568	ERJ3GEYJ102V	MGF CHIP 1/16W 1K		
R8572	ERJ3GEYJ102V	MGF CHIP 1/16W 1K		
R8573	ERJ3GEY0R00V	MGF CHIP 1/16W 0		
R8801	ERJ3GEYJ153V	MGF CHIP 1/16W 15K		
R8802	ERJ3GEYJ153V	MGF CHIP 1/16W 15K		
R8804	ERJ3GEYJ823V	MGF CHIP 1/16W 82K		
R8805	ERJ3GEYJ823V	MGF CHIP 1/16W 82K		
R8902	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8903	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R8904	ERJ3GEYJ821V	MGF CHIP 1/16W 820		
R8905	ERJ3GEYJ331V	MGF CHIP 1/16W 330		
R8906	ERJ3GEYJ821V	MGF CHIP 1/16W 820		
R8907	ERJ3GEYJ331V	MGF CHIP 1/16W 330		
R8908	ERJ3GEYJ560V	MGF CHIP 1/16W 56		
R8909	ERJ3GEYJ560V	MGF CHIP 1/16W 56		
R8910	ERJ12YJ270U	MGF CHIP 1/2W 27		
R8911	ERJ12YJ270U	MGF CHIP 1/2W 27		
R8912	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R8913	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R8914	ERJ3GEYJ153V	MGF CHIP 1/16W 15K		
R8917	ERJ3GEYJ100V	MGF CHIP 1/16W 10		
R8918	ERJ3GEYJ100V	MGF CHIP 1/16W 10		
R8919	ERJ3GEYJ3R9V	MGF CHIP 1/16W 3.9		
R8920	ERJ3GEYJ102V	MGF CHIP 1/16W 1K		

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C8001	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8002	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8003	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8004	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8006	ECJ1VB1E103K	C CHIP 25V 0.01UF	
C8007	F1H1C104A041	C CHIP 16V 0.1UF	
C8008	F1H1C104A041	C CHIP 16V 0.1UF	
C8009	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8010	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8011	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8012	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8013	ECJ1VB0J105K	C CHIP 6.3V 1UF	

Ref. No. No. C8014 ECJIVBOJIOSK C CHIP 6.3V 1UF C8015 ECJIVBOJIOSK C CHIP 6.3V 1UF C8016 ECJIVBOJIOSK C CHIP 6.3V 1UF C8017 ECJIVBOJIOSK C CHIP 6.3V 1UF C8017 ECJIVBOJIOSK C CHIP 6.3V 1UF C8018 ECRAOJKA331 ELECTROLYTIC 6.3V 330UF C8019 PIHICIO4A041 C CHIP 16.V 0.1UF C8020 ECJIVBOJIOSK C CHIP 6.3V 1UF C8021 ECJZPBOJIO6K C CHIP 6.3V 1UF C8022 ECJZPBOJIO6K C CHIP 6.3V 1UF C8022 ECJZPBOJIO6K C CHIP 6.3V 1UF C8023 ECJZPBOJIO6K C CHIP 6.3V 1UF C8024 ECJIVBOJIOSK C CHIP 6.3V 1UF C8025 ECJZPBOJIO6K C CHIP 6.3V 1UF C8026 ECJZPBOJIO6K C CHIP 6.3V 1UF C8027 ECJIVBOJIOSK C CHIP 6.3V 1UF C8028 ECJZPBOJIO6K C CHIP 6.3V 1UF C8029 ECJZPBOJIO6K C CHIP 6.3V 1UF C8020 ECJZPBOJIO6K C CHIP 6.3V 1UF C8021 ECJZPBOJIO6K C CHIP 6.3V 1UF C8022 ECJZPBOJIO6K C CHIP 6.3V 1UF C8023 ECJZPBOJIO6K C CHIP 6.3V 1UF C8023 ECJIVBOJIO5K C CHIP 6.3V 1UF C8023 ECJIVBOJIO5K C CHIP 6.3V 1UF C8030 ECJZPBOJIO6K C CHIP 6.3V 1UF C8031 ECJIVBOJIO5K C CHIP 6.3V 1UF C8032 ECJIVBOJIO5K C CHIP 6.3V 1UF C8033 ECJIVBOJIO5K C CHIP 6.3V 1UF C8036 ECJIVBOJIO5K C CHIP 6.3V 1UF C8037 ECJIVBOJIO5K C CHIP 6.3V 1UF C8038 ECJIVBOJIO5K C CHIP 6.3V 1UF C8039 ECJIVBOJIO5K C CHIP 6.3V 1UF C8031 ECJIVBOJIO5K C CHIP 6.3V 1UF C8032 ECJIVBOJIO5K C CHIP 6.3V 1UF C8033 ECJIVBOJIO5K C CHIP 6.3V 1UF C8034 ECJIVBOJIO5K C CHIP 6.3V 1UF C8035 ECJIVBOJIO5K C CHIP 6.3V 1UF C8036 ECJIVBOJIO5K C CHIP 6.3V 1UF C8047 ECJIVBISESK C CHIP 6.3V 1UF C8040 ECJIVBISESK C CHIP 6.3V 1UF C8041 ECJIVBISESK C CHIP 6.3V 1UF C8042 ECJIVBISESK C CHIP 6.3V 1UF C8044 PHICIO4A041 C CHIP 16V 0.1UF C8045 PHICIO4A041 C CHIP 16V 0.1UF C8046 ECJIVBOJIO5K C CHIP 6.3V 1UF C8047 PHICIO4A041 C CHIP 16V 0.1UF C8048 ENGREPHICIOSK C CHIP 6.3V 1UF C8055 ECJIVBOJIO5K C CHIP 6.3V 1UF C8066 ECJIVBOJIO5K C CHIP 6.3V 1UF C8066 ECJIVBOJIO5K C CHIP 6.3V 1UF C8067 ECJIVBOJIO5K C CHIP 6.3V 1UF C8068 ECGIVBOJIO5K C CHIP 6.3V 1UF C8069 ECJIVBOJIO5K C CHIP 6.3V 1UF C8060 ECJ				
CROSS C. CIMP 6.3V 1UF	Ref.	Part No.	Part Name & Description	Remarks
C8015	No.			
C8015	C8014	ECJ1VB0J105K	C CHIP 6.3V 1UF	
SOLIDEDITION C. CHIP 6.3V 1UF				
C8017				
C8018 CCRAOJKA331 ELECTROLYTIC 6.3V 330UF	C8016	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8019	C8017	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8021 ECJYB0J105K C CHIP 6.3V 1UF C8021 ECJYB0J106K C CHIP 6.3V 10UF C8022 ECJYB0J106K C CHIP 6.3V 10UF C8022 ECJYB0J106K C CHIP 6.3V 1UF C8024 ECJYB0J105K C CHIP 6.3V 1UF C8025 ECJYB0J105K C CHIP 6.3V 1UF C8026 ECJYB0J105K C CHIP 6.3V 1UF C8027 ECJYB0J105K C CHIP 6.3V 1UF C8028 ECJYB0J106K C CHIP 6.3V 1UF C8028 ECJYB0J106K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8028 ECJYB0J105K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8030 ECJYB0J105K C CHIP 6.3V 1UF C8031 ECJYB0J105K C CHIP 6.3V 1UF C8033 ECJYB0J105K C CHIP 6.3V 1UF C8036 ECJYB0J105K C CHIP 6.3V 1UF C8037 ECJYB0J105K C CHIP 6.3V 1UF C8038 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8030 ECJYB0J105K C CHIP 6.3V 1UF C8031 ECJYB0J105K C CHIP 6.3V 1UF C8038 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8040 ECJYB0J105K C CHIP 6.3V 1UF C8041 ECJYB0J105K C CHIP 6.3V 1UF C8042 ECJYB0J105K C CHIP 6.3V 1UF C8043 ECJYB0J105K C CHIP 6.3V 1UF C8044 ECJYB0J105K C CHIP 6.3V 1UF C8045 ECJYB0J106K C CHIP 6.3V 1UF C8046 ECJYB0J106K C CHIP 6.3V 1UF C8047 FIHIC104A041 C CHIP 16V 0.1UF C8048 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8040 FIHIC104A041 C CHIP 16V 0.1UF C8041 ECJYB0J105K C CHIP 6.3V 1UF C8051 ECJYB0J105K C CHIP 6.3V 1UF C8052 ECJYB0J105K C CHIP 6.3V 1UF C8065 ECJYB0J105K C CHIP 6.3V 1UF C8066 ECJYB0J105K C CHIP 6.3V 1UF C8067 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8066 ECJYB0J105K C CHIP 6.3V 1UF C8067 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8069 ECJYB0J105K C CHIP 6.3V 1UF C8069 ECJYB0J105K C CHIP 6.3V 1UF C8060 ECJYB0J105K C CHIP 6.3	C8018	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8021 ECJYB0J105K C CHIP 6.3V 1UF C8021 ECJYB0J106K C CHIP 6.3V 10UF C8022 ECJYB0J106K C CHIP 6.3V 10UF C8022 ECJYB0J106K C CHIP 6.3V 1UF C8024 ECJYB0J105K C CHIP 6.3V 1UF C8025 ECJYB0J105K C CHIP 6.3V 1UF C8026 ECJYB0J105K C CHIP 6.3V 1UF C8027 ECJYB0J105K C CHIP 6.3V 1UF C8028 ECJYB0J106K C CHIP 6.3V 1UF C8028 ECJYB0J106K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8028 ECJYB0J105K C CHIP 6.3V 1UF C8029 ECJYB0J105K C CHIP 6.3V 1UF C8030 ECJYB0J105K C CHIP 6.3V 1UF C8031 ECJYB0J105K C CHIP 6.3V 1UF C8033 ECJYB0J105K C CHIP 6.3V 1UF C8036 ECJYB0J105K C CHIP 6.3V 1UF C8037 ECJYB0J105K C CHIP 6.3V 1UF C8038 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8030 ECJYB0J105K C CHIP 6.3V 1UF C8031 ECJYB0J105K C CHIP 6.3V 1UF C8038 ECJYB0J105K C CHIP 6.3V 1UF C8039 ECJYB0J105K C CHIP 6.3V 1UF C8040 ECJYB0J105K C CHIP 6.3V 1UF C8041 ECJYB0J105K C CHIP 6.3V 1UF C8042 ECJYB0J105K C CHIP 6.3V 1UF C8043 ECJYB0J105K C CHIP 6.3V 1UF C8044 ECJYB0J105K C CHIP 6.3V 1UF C8045 ECJYB0J106K C CHIP 6.3V 1UF C8046 ECJYB0J106K C CHIP 6.3V 1UF C8047 FIHIC104A041 C CHIP 16V 0.1UF C8048 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8040 FIHIC104A041 C CHIP 16V 0.1UF C8041 ECJYB0J105K C CHIP 6.3V 1UF C8051 ECJYB0J105K C CHIP 6.3V 1UF C8052 ECJYB0J105K C CHIP 6.3V 1UF C8065 ECJYB0J105K C CHIP 6.3V 1UF C8066 ECJYB0J105K C CHIP 6.3V 1UF C8067 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8066 ECJYB0J105K C CHIP 6.3V 1UF C8067 ECJYB0J105K C CHIP 6.3V 1UF C8068 ECJYB0J105K C CHIP 6.3V 1UF C8069 ECJYB0J105K C CHIP 6.3V 1UF C8069 ECJYB0J105K C CHIP 6.3V 1UF C8060 ECJYB0J105K C CHIP 6.3	C8019	F1H1C104A041	C CHIP 16V 0.1UF	
C8021 ECJ2FB0J106K C CHIP 6.3V 10UF C8022 ECJ2FB0J106K C CHIP 6.3V 10UF C8023 ECJ2FB0J106K C CHIP 6.3V 1UF C8026 ECJ1VB0J105K C CHIP 6.3V 1UF C8027 ECJ1VB0J105K C CHIP 6.3V 1UF C8026 ECJ2FB0J106K C CHIP 6.3V 1UF C8027 ECJ1VB0J105K C CHIP 6.3V 1UF C8028 ECJ2FB0J106K C CHIP 6.3V 1UF C8028 ECJ2FB0J106K C CHIP 6.3V 1UF C8029 ECJ1VB0J105K C CHIP 6.3V 1UF C8029 ECJ1VB0J105K C CHIP 6.3V 1UF C8030 ECJ2FB0J106K C CHIP 6.3V 1UF C8031 ECJ1VB0J105K C CHIP 6.3V 1UF C8032 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8034 ECJ2FB0J106K C CHIP 6.3V 1UF C8035 ECJ1VB0J105K C CHIP 6.3V 1UF C8036 ECJ1VB0J105K C CHIP 6.3V 1UF C8036 ECJ1VB0J105K C CHIP 6.3V 1UF C8037 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ2FB0J106K C CHIP 6.3V 1UF C8039 ECJ1VB0J105K C CHIP 6.3V 1UF C8039 ECJ1VB0J105K C CHIP 6.3V 1UF C8039 ECJ1VB0J105K C CHIP 6.3V 1UF C8040 ECJ1VB0J105K C CHIP 6.3V 1UF C8040 ECJ1VB0J105K C CHIP 6.3V 1UF C8040 ECJ1VB0J105K C CHIP 6.3V 1UF C8041 ECJ1VB0J105K C CHIP 6.3V 1UF C8042 ECJ1VB0J105K C CHIP 6.3V 1UF C8044 ECJ1VB0J105K C CHIP 6.3V 1UF C8045 ECJ1VB0J105K C CHIP 6.3V 1UF C8046 ECJ1VB0J105K C CHIP 6.3V 1UF C8047 FIHC104A041 C CHIP 16V 0.1UP C8048 FIHC104A041 C CHIP 16V 0.1UP C8049 FIHC104A041 C CHIP 16V 0.1UP C8050 FIHC104A041 C CHIP 16V 0.1UP C8050 FIHC104A041 C CHIP 16V 0.1UP C8051 ECJ1VB0J105K C CHIP 6.3V 1UF C8052 ECJ2FB0J106K C CHIP 6.3V 1UF C8053 ECJ1VB0J105K C CHIP 6.3V 1UF C8056 ECJ1VB0J105K C CHIP 6.3V 1UF C8057 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8069 ECJ1VB0J105K C CHIP 6.3V 1UF C8060 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J				
C8022				-
C8023 ECJYP80J106K C CHIP 6.3V 1UF C8024 ECJYP80J105K C CHIP 6.3V 1UF C8026 ECJYP80J105K C CHIP 6.3V 1UF C8027 ECJYP80J106K C CHIP 6.3V 1UF C8027 ECJYP80J106K C CHIP 6.3V 1UF C8028 ECJYP80J106K C CHIP 6.3V 1UF C8028 ECJYP80J106K C CHIP 6.3V 1UF C8028 ECJYP80J106K C CHIP 6.3V 1UF C8030 ECJYP80J106K C CHIP 6.3V 1UF C8031 ECJYP80J106K C CHIP 6.3V 1UF C8033 ECJYP80J106K C CHIP 6.3V 1UF C8034 ECJYP80J105K C CHIP 6.3V 1UF C8035 ECJYP80J106K C CHIP 6.3V 1UF C8036 ECJYP80J105K C CHIP 6.3V 1UF C8037 ECJYP80J105K C CHIP 6.3V 1UF C8038 ECJYP80J105K C CHIP 6.3V 1UF C8039 ECJYP80J105K C CHIP 6.3V 1UF C8030 ECJYP80J105K C CHIP 6.3V 1UF C8031 ECJYP80J105K C CHIP 6.3V 1UF C8032 ECJYP80J105K C CHIP 6.3V 1UF C8033 ECJYP80J105K C CHIP 6.3V 1UF C8034 ECJYP80J105K C CHIP 6.3V 1UF C8036 ECJYP80J105K C CHIP 6.3V 1UF C8037 ECJYP80J105K C CHIP 6.3V 1UF C8040 ECJYP81E56ZK C CHIP 6.3V 1UF C8041 ECJYP81E36X C CHIP 5.0V 10F C8042 ECJYP81E36X C CHIP 5.0V 1UF C8044 FIHIC104A041 C CHIP 16V 0.1UF C8045 FIHIC104A041 C CHIP 16V 0.1UF C8046 ECJYP80J105K C CHIP 6.3V 1UF C8047 FIHIC104A041 C CHIP 16V 0.1UF C8048 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8049 FIHIC104A041 C CHIP 16V 0.1UF C8051 ECJYP80J105K C CHIP 6.3V 1UF C8052 ECJYP80J105K C CHIP 6.3V 1UF C8053 ECJYP80J105K C CHIP 6.3V 1UF C8054 ECJYP80J105K C CHIP 6.3V 1UF C8055 ECJYP80J105K C CHIP 6.3V 1UF C8056 ECJYP80J105K C CHIP 6.3V 1UF C8066 ECJYP80J105K C CHIP 6.3V 1UF C8067 ECJYP80J105K C CHIP 6.3V 1UF C8068 ECJYP80J105K C CHIP 6.3V 1UF C8069 ECJYP80J105K C CHIP 6.3V 1UF C8066 ECJYP80J105K C CHIP 6.3V 1UF C8067 ECJYP80J105K C CHIP 6.3V 1UF C8068 ECJYP80J105K C CHIP 6.3V 1UF C8068 ECJYP80J105K C CHIP 6.3V 1UF C8069 ECJYP80J105K C CHIP 6.3V 1UF C8069 ECJYP80J105K C CHIP 6.3V 1UF C8068 ECJYP	C8021	ECJ2FB0J106K	C CHIP 6.3V 10UF	
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C8028	C8026	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8029 ECJ1VB0J105K C CHIP 6.3V 1UF C8030 ECJ2VB0J105K C CHIP 6.3V 1UF C8032 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ2VB0J105K C CHIP 6.3V 1UF C8035 ECJ1VB0J105K C CHIP 6.3V 1UF C8036 ECJ1VB0J105K C CHIP 6.3V 1UF C8037 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8039 ECJ1VB0J105K C CHIP 6.3V 1UF C8030 ECJ1VB0J105K C CHIP 6.3V 1UF C8040 ECJ1VB11562K C CHIP 5.3V 1UF C8041 ECJ1VB0J105K C CHIP 5.3V 1UF C8042 ECJ1VB18183K C CHIP 50V 5600PF C8044 ECJ1VB11562K C CHIP 50V 0.1UF C8045 F1HC104A041 C CHIP 16V 0.1UF C8046 ECJ1VB0J105K C CHIP 6.3V 1UF C8047 F1HC104A041 C CHIP 16V 0.1UF C8048 F1HC104A041 C CHIP 16V 0.1UF C8049 F1HC104A041 C CHIP 16V 0.1UF C8050 F1HC104A041 C CHIP 16V 0.1UF C8051 ECJ1VB0J105K C CHIP 6.3V 1UF C8052 ECJ2FB0J106K C CHIP 6.3V 1UF C8053 ECJ1VB0J105K C CHIP 6.3V 1UF C8053 ECJ1VB0J105K C CHIP 6.3V 1UF C8055 ECJ1VB0J105K C CHIP 6.3V 1UF C8056 ECJ1VB0J105K C CHIP 6.3V 1UF C8057 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8059 ECJ1VB0J105K C CHIP 6.3V 1UF C8056 ECJ1VB0J105K C CHIP 6.3V 1UF C8057 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8069 ECJ1VB0J105K C CHIP 6.3V 1UF C8060 ECJ1VB0J105K C CHIP 6.3V 1UF C8061 ECJ1VB0J105K C CHIP 6.3V 1UF C8062 ECJ1VB0J105K C CHIP 6.3V 1UF C8063 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8069 ECJ1VB0J105K C CHIP 6.3V 1UF C8060 ECJ1VB0J105K C CHIP 6.3V 1UF C8061 ECJ1VB0J105K C CHIP 6.3V 1UF C8062 ECJ1VB0J105K C CHIP 6.3V 1UF C8063 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0	C8027	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8029 ECJ1VB0J105K C CHIP 6.3V 1UF C8030 ECJ2VB0J105K C CHIP 6.3V 1UF C8032 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ1VB0J105K C CHIP 6.3V 1UF C8033 ECJ2VB0J105K C CHIP 6.3V 1UF C8035 ECJ1VB0J105K C CHIP 6.3V 1UF C8036 ECJ1VB0J105K C CHIP 6.3V 1UF C8037 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8038 ECJ1VB0J105K C CHIP 6.3V 1UF C8039 ECJ1VB0J105K C CHIP 6.3V 1UF C8030 ECJ1VB0J105K C CHIP 6.3V 1UF C8040 ECJ1VB11562K C CHIP 5.3V 1UF C8041 ECJ1VB0J105K C CHIP 5.3V 1UF C8042 ECJ1VB18183K C CHIP 50V 5600PF C8044 ECJ1VB11562K C CHIP 50V 0.1UF C8045 F1HC104A041 C CHIP 16V 0.1UF C8046 ECJ1VB0J105K C CHIP 6.3V 1UF C8047 F1HC104A041 C CHIP 16V 0.1UF C8048 F1HC104A041 C CHIP 16V 0.1UF C8049 F1HC104A041 C CHIP 16V 0.1UF C8050 F1HC104A041 C CHIP 16V 0.1UF C8051 ECJ1VB0J105K C CHIP 6.3V 1UF C8052 ECJ2FB0J106K C CHIP 6.3V 1UF C8053 ECJ1VB0J105K C CHIP 6.3V 1UF C8053 ECJ1VB0J105K C CHIP 6.3V 1UF C8055 ECJ1VB0J105K C CHIP 6.3V 1UF C8056 ECJ1VB0J105K C CHIP 6.3V 1UF C8057 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8059 ECJ1VB0J105K C CHIP 6.3V 1UF C8056 ECJ1VB0J105K C CHIP 6.3V 1UF C8057 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8058 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8069 ECJ1VB0J105K C CHIP 6.3V 1UF C8060 ECJ1VB0J105K C CHIP 6.3V 1UF C8061 ECJ1VB0J105K C CHIP 6.3V 1UF C8062 ECJ1VB0J105K C CHIP 6.3V 1UF C8063 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0J105K C CHIP 6.3V 1UF C8067 ECJ1VB0J105K C CHIP 6.3V 1UF C8068 ECJ1VB0J105K C CHIP 6.3V 1UF C8069 ECJ1VB0J105K C CHIP 6.3V 1UF C8060 ECJ1VB0J105K C CHIP 6.3V 1UF C8061 ECJ1VB0J105K C CHIP 6.3V 1UF C8062 ECJ1VB0J105K C CHIP 6.3V 1UF C8063 ECJ1VB0J105K C CHIP 6.3V 1UF C8066 ECJ1VB0	C8028	ECJZFB0J106K		
C8031		+		
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C8034				
C8035				+
C8036				1
C8037 ECJIVBOJ105K C CHIP 6.3V 1UF	C8035	ECJ1VB0J105K	C CHIP 6.3V 1UF	1
C8038	C8036	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8038	C8037	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8039				
C8040				+
C8041				+
C8042 ECJIVB1E183K C CHIP 25V 0.018UF	C8040	ECJ1VB1H562K	C CHIP 50V 5600PF	
C8042 ECJIVB1E183K C CHIP 25V 0.018UF	C8041	ECJ1VB0J105K	C CHIP 6.3V 1UF	
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C8070 ECJ1VB0J105K C CHIP 6.3V 1UF C8071 ECJ2FB0J106K C CHIP 6.3V 10UF C8072 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8073 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 15PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8068	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8070 ECJ1VB0J105K C CHIP 6.3V 1UF C8071 ECJ2FB0J106K C CHIP 6.3V 10UF C8072 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8073 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8069	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8071 ECJ2FB0J106K C CHIP 6.3V 10UF C8072 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8073 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 15PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8070	ECJ1VB0J105K		
C8072 ECEAOJKA101 ELECTROLYTIC 6.3V 100UF C8073 ECEAOJKA101 ELECTROLYTIC 6.3V 100UF C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEAOJKA101 ELECTROLYTIC 6.3V 100UF				
C8073 ECEAOJKA101 ELECTROLYTIC 6.3V 100UF C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEAOJKA101 ELECTROLYTIC 6.3V 100UF				+
C8074 ECJ1VB1H102K C CHIP 50V 1000PF C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				1
C8075 F1H1C104A041 C CHIP 16V 0.1UF C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8073	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8074	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8076 ECJ1VC1H050C C CHIP 50V 5PF C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8075	F1H1C104A041	C CHIP 16V 0.1UF	
C8077 ECJ1VC1H150J C CHIP 50V 15PF C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				
C8078 ECJ1VC1H150J C CHIP 50V 15PF C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				+
C8080 ECJ1VB1H102K C CHIP 50V 1000PF C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				
C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8078	ECJ1VC1H150J	C CHIP 50V 15PF	
C8081 ECJ1VB1H102K C CHIP 50V 1000PF C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8080	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8082 ECJ1VB1H102K C CHIP 50V 1000PF C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				
C8083 ECJ1VB1H102K C CHIP 50V 1000PF C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				
C8086 ECEA1CKA100 ELECTROLYTIC 16V 10UF C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF				+
C8090 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8083	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8086	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8091 ECEA0JKA101 ELECTROLYTIC 6.3V 100UF	C8090	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
				1
C8401 ECEAUJKAIUI ELECTROLYTIC 6.3V 1000F				+
	C8401	ECEAUJKA101	ELECTROLYTIC 6.3V 100UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C8402	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8403	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8404	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8430	ECEA0JKA221	ELECTROLYTIC 6.3V 220UF	
C8431	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8434	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C8435	F1H1A105A025	C CHIP 10V 1UF	
C8436	F1H1A105A025	C CHIP 10V 1UF	
C8439	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8440	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8441	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C8443	F1H1C104A041	C CHIP 16V 0.1UF	
C8444	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8445	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C8448	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8449	ECEA0JKA220	ELECTROLYTIC 6.3V 22UF	
C8450	ECEAUJKA101	ELECTROLYTIC 6.3V 220F	
C8451	ECEAUJKA101 ECEAUJKA220	ELECTROLYTIC 6.3V 22UF	
	 		
C8452 C8453	ECEA0JKA101 ECEA0JKA101	ELECTROLYTIC 6.3V 100UF ELECTROLYTIC 6.3V 100UF	
C8454	ECEAUJKA101 ECEAUJKA220	ELECTROLYTIC 6.3V 1000F	
C8455	ECEAOUKA220	ELECTROLYTIC 6.3V 22UF	
C8504	ECHAUSKA220 ECJ1VB0J105K	C CHIP 6.3V 1UF	
	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8505			
C8506	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8508	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8512 C8513	ECEA1CKA100 ECEA1CKA100	ELECTROLYTIC 16V 10UF ELECTROLYTIC 16V 10UF	
C8520	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8521	ECEA1CKA101	ELECTROLYTIC 16V 100UF	
C8522	F1H1C104A041	C CHIP 16V 0.1UF	
C8523	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8536	ECJ1VC1H101J	C CHIP 50V 100PF	
C8537	ECJ1VC1H101J	C CHIP 50V 100PF	
C8544	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8545	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8553	F1H1H472A219	C CHIP 50V 4700PF	
C8555	F1H1H472A219	C CHIP 50V 4700PF	
C8568	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8569	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8803	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8805	F1H1A105A025	C CHIP 10V 1UF	
C8807	F1K1A106A005	C CHIP 10V 10UF	
C8808	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8809	F1H1C104A041	C CHIP 16V 0.1UF	
C8813	F1H1A105A025	C CHIP 10V 1UF	
C8901	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8905	F1H1C104A041	C CHIP 16V 0.1UF	
C8907	F1H1C104A041	C CHIP 16V 0.1UF	
C8908	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C8909	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C8911	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8917	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8920	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8921	ECJ1VC1H560J	C CHIP 50V 56PF	
C8922	ECJ1VC1H560J	C CHIP 50V 56PF	
		1	

FILTERS

TIETERO				
Ref. No.	Part No.	Part Name & Description	Remarks	
FL8502	J0HAAG000015	EMI FILTER CHIP		

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L8001	J0JCC0000117	EMI FILTER CHIP	
L8002	J0JDC0000002	EMI FILTER CHIP	
L8005	J0JDC0000002	EMI FILTER CHIP	
L8006	J0JCC0000215	EMI FILTER CHIP	
L8007	J0JDC0000002	EMI FILTER CHIP	
L8008	J0JDC0000002	EMI FILTER CHIP	
L8009	J0JDC0000002	EMI FILTER CHIP	
L8010	J0JHC0000027	EMI FILTER CHIP	·

PV-D4735S / PV-D4745 / PV-D4745S / F)4745S / PV-D	
Ref.	Part No.	Part Name & Description	Remarks
No.			
L8011	J0JCC0000215	EMI FILTER CHIP	
L8012	J0JCC0000215	EMI FILTER CHIP	
L8013	J0JCC0000215	EMI FILTER CHIP	
L8014	J0JCC0000063	EMI FILTER CHIP	
L8015	J0JCC0000063	EMI FILTER CHIP	
L8016	J0JCC0000063	EMI FILTER CHIP	
L8017	J0JCC0000063	EMI FILTER CHIP	
L8018	J0JCC0000063	EMI FILTER CHIP	
L8019	J0JCC0000215	EMI FILTER CHIP	
L8020	J0JCC0000215	EMI FILTER CHIP	
L8021	J0JCC0000215	EMI FILTER CHIP	
L8409	J0JHC0000078	EMI FILTER CHIP	
L8411	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
L8412	J0JHC0000068	EMI FILTER CHIP	
L8413	J0JHC0000078	EMI FILTER CHIP	
L8414	J0JHC0000054	EMI FILTER CHIP	
L8415	J0JHC0000068	EMI FILTER CHIP	
L8416	J0JBC0000010	CHIP BEAD INDUCTOR	
L8418	J0JBC0000010	CHIP BEAD INDUCTOR	
L8419	J0JBC0000010	CHIP BEAD INDUCTOR	
L8420	J0JBC0000010	CHIP BEAD INDUCTOR	
L8421	J0JBC0000010	CHIP BEAD INDUCTOR	
L8422	J0JBC0000010	CHIP BEAD INDUCTOR	
L8424	J0JBC0000010	CHIP BEAD INDUCTOR	
L8429	J0JHC0000078	EMI FILTER CHIP	
L8431	J0JCC0000063	EMI FILTER CHIP	
L8433	J0JCC0000063	EMI FILTER CHIP	
L8434	J0JCC0000063	EMI FILTER CHIP	
L8435	J0JCC0000063	EMI FILTER CHIP	
L8436	J0JCC0000063	EMI FILTER CHIP	
L8437	J0JCC0000063	EMI FILTER CHIP	
L8438	ERJ8GEY0R00V	MGF CHIP 1/8W 0	
L8439	ERJ8GEY0R00V	MGF CHIP 1/8W 0	
L8501	J0JBC0000010	CHIP BEAD INDUCTOR	
L8503	J0JBC0000010	CHIP BEAD INDUCTOR	
L8504	J0JBC0000010	CHIP BEAD INDUCTOR	
L8517	J0JCC0000063	EMI FILTER CHIP	
L8518	J0JDC0000002	EMI FILTER CHIP	
L8901	J0JDC0000002	EMI FILTER CHIP	

CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks
X8001	ној270500066	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref.	Part No.	Part Name & Description	Remarks
No.			
P8401	K1MN24A00057	CONNECTOR 24P	
P8402	K1MR11A00017	CONNECTOR 11P	
P8901	K1MN25B00070	CONNECTOR 25P	

11.3.5. DVD SUB C.B.A.

SWITCHES

Ref.	Part No.	Part Name & Description	Remarks
No.			
SW8951	ESE31R01T	SWITCH PUSH	
SW8952	ESE31L01T	SWITCH PUSH	

Order No. MKE0401000C1 B3 B6 B22

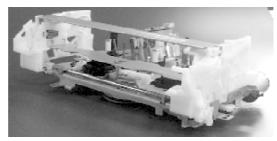
Service Manual

Video Cassette Mechanism

Panasonic VHS

R4-MECHANISM-CHASSIS-FOR-PV-MODEL

INTRODUCTION / The R4-Mechanism chassis for PV-Model are built in several Panasonic VCR, DVD-VCR, COMBO and DVD COMBO from year 2004.



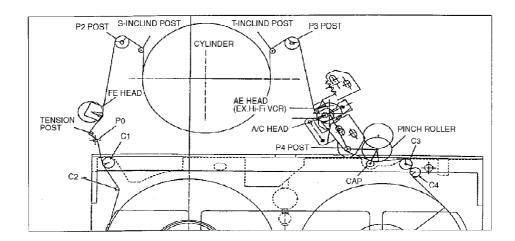
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⚠ WARNING

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Panasonic

- 1. OUTLINE OF R4 MECHANISM
- 1.1. THE TAPE TRANSPORT PATH



1.2. NOTES OF REPLACING THE CYLINDER UNIT

1. When replacing Cylinder Unit, perform the TAPE INTERCHANGEABILITY ADJUSTMENT (Linearity Adjustment and X -Value Adjustment) and Clear the Total Elapsed Time to 0, after perform the PG SHIFTER ADJUSTMENT.

1.3. PARTS NAME OF R4-MECHANISM

Fig. T2

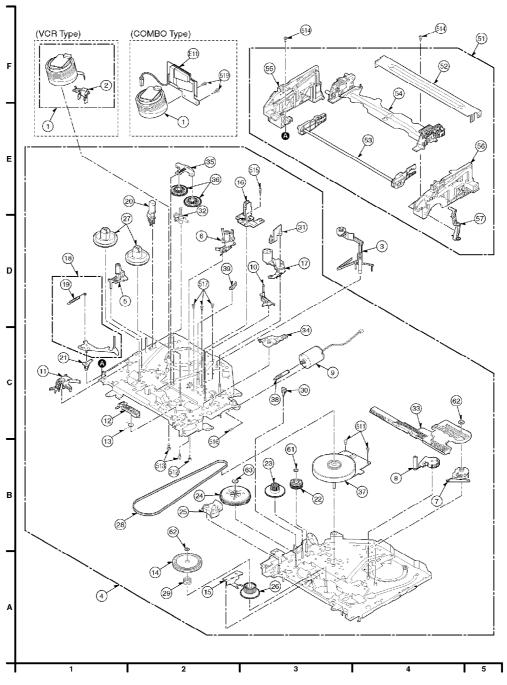


Fig. T3

Ref.No.	Part Name	Ref.No.	Part Name
1	CYLINDER KIT (VCR Type)	51	CASSETTE UP ASS'Y
1	CYLINDER UNIT (COMBO Type)	52	TOP PLATE
2	FPC HOLDER (VCR Type)	53	MAIN SHAFT UNIT
3	CLEANER ARM UNIT	54	CASSETTE HOLDER UNIT
4	MECHANICAL CHASSIS SUB ASS'Y	55	SIDE PLATE L
5	SUPPLY SHAFT HOLDER UNIT	56	SIDE PLATE R2
6	TAKE UP SHAFT HOLDER UNIT	57	OPENER LEVER 2
7	SUPPLY LOADING ARM UNIT	61	CUT WASHER
8	TAKE UP LOADING ARM UNIT	62	CUT WASHER
9	LOADING MOTOR UNIT	63	CUT WASHER
10	P5 ARM UNIT		
11	SUPPLY BRAKE ARM UNIT	511	TAPPING SCREW,STEEL
12	TAKE UP BRAKE ARM UNIT	512	SCREW,STEEL
13	TAKE UP BRAKE SPRING	513	SCREW,STEEL
14	CENTER CLUTCH UNIT	514	TAPPING SCREW,STEEL
15	CHANGE LEVER UNIT	515	SCREW,STEEL
16	AUDIO CONTROL/ERASE HEAD UNIT	516	SCREW,STEEL
17	PINCH ARM UNIT	517	SCREW,STEEL
18	TENSION ARM UNIT	519	SCREW,STEEL (COMBO Type)
	TENSION SPRING		
20	FULL ERASE HEAD	E11	HEAD AMP C.B.A. (COMBO Type)
	TENSION ARM BOSS		
22	TORQUE CLUTCH UNIT		
	INTERMEDIATE GEAR		
	MAIN CAM GEAR		
25	SECTOR GEAR UNIT		
26	CHANGE GEAR		
	REEL TABLE		
28	CAPSTAN BELT		
29	CHANGING GEAR SPRING		
30	WORM BEARING 2		
31	OPENER PIECE		
	LED PRISM		
	MAIN LEVER		
	PINCH CHARGE ARM		
	IDLER ARM		
	IDLER GEAR		
37	CAPSTAN ASS'Y		
38	WORM GEAR 2		
39	P4 CAP 2		

2. METHOD FOR LOADING / UNLOADING OF MECHANISM

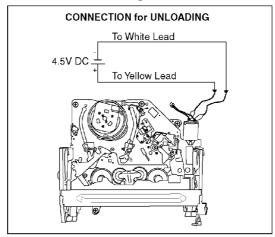
2.1. REMOVAL OF CASSETTE TAPE

When the cassette tape could not be ejected from a malfunction, There are 3 ways to remove a cassette tape.

- 2.1.1. Removal by manual operation by rotating the Loading Motor with the batteries.
- 1. Disconnect the AC plug, and remove to the state of Main C.B.A. with Mechanism Unit by referring the Service Manual of the corresponding model.

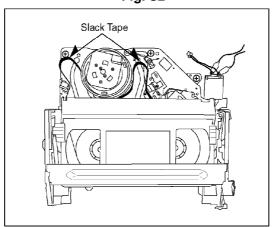
- 2. Disconnect the connector of Loading Motor.
- 3. Connect three batteries (1.5V spec.) to the Loading Motor in series for supplying 4.5V to rotate the Loading Motor as shown in Fig. S1.

Fig. S1



4. Stop unloading just before unloading is about to be completed. Then the tape becomes slack as shown in Fig. S2.

Fig. S2



5. Rotate the S-Reel by a small minus screwdriver (Fig. S3) to remove the tape slacks as shown in Fig. S4.

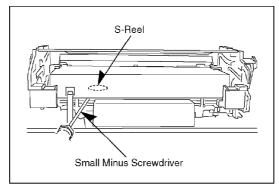
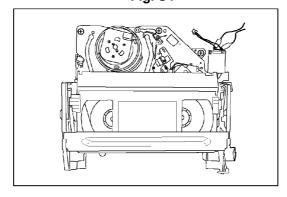


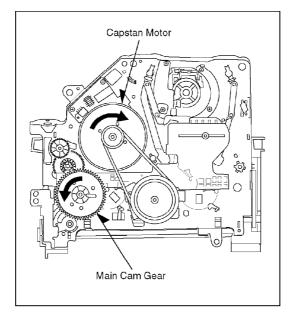
Fig. S4



6. Then unload again to remove the cassette tape as shown in Fig. **S5.**

Fig. S5

- 2.1.2. Removal by manual operations. (When the Main Cam Gear does not lock.)
- 1. Disconnect the AC plug, and remove the Mechanism Chassis Unit by referring the Service Manual of the corresponding model.
- 2. Rotate the Main Cam Gear counter-clockwise (Fig. S6) until just before the unloading would be completed as shown in Fig. S2.
- 3. Rotate the Capstan Motor clockwise (Fig. S6) to remove the tape slacks as shown in Fig. S4.



- 4. Rotate the Main Cam Gear counter-clockwise again (Fig. S6) to remove the cassette-tape as shown in Fig. S5.
- 5. Set the MODE SW to EJECT POSITION certainly as shown in Fig. S7.

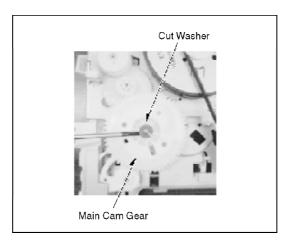
Fig. S7

MAIN C.B.A.

EJECT POSITION

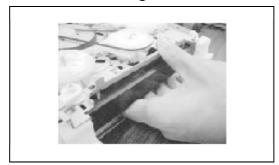
MODE SW

- 2.1.3. Removal by manual operations. / (When the Main Cam Gear lock)
- 1. Disconnect the AC plug, and remove the Mechanism Chassis Unit by referring the Service Manual of the corresponding model.
- 2. Remove a washer of Main Cam Gear with a previous thin minus screw driver and so on. < Fig. S8>



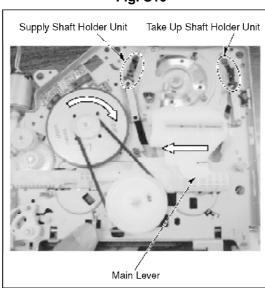
3. Fix by hand so that a cassete tape does not fall, and remove a Main Cam Gear. < Fig. S9>

Fig. S9



4. Move a Main Lever in the direction of an arrow, and move a Shaft Holder near the position shown in the following figure.

Fig. S10



- 5. Remove the tape from the tape path.
- 6. Rotate the Capstan Motor clockwise to remove the tape slacks.
- 7. Furthermore, move the Main Lever in the direction of an arrow, and eject a cassette tape.
- 8. Install the Main Cam Gear.

NOTE:

When install the Main Cam Gear, the Main Lever, the Sector Gear Unit and the Main Cam Gear need to be phase adjusted.

Refer to "6.2. ASSEMBLY AND PHASE ADJUSTMENT OF MECHANICAL CHASSIS SUB ASS'Y"

2.2. SERVICE MODE

In service mode, detection of the Supply & Takeup Photo Transistors, Reel Sensor, and Cylinder Lock can be inhibited.

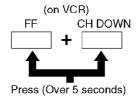
In this mode, Mechanism movement can be confirmed. When removing Cassette Up Ass'y, it can be confirmed without a cassette.

<VCR type>

To enter Service Mode:

Press and hold FF button and CH DOWN button on VCR together over 5 seconds.

Fig. S11



The power comes on and the unit goes into Service Mode.

To release from this mode, disconnect AC Plug.

<COMBO type>

To enter Service Mode:

Press and hold STOP/EJECT, PLAY/REPEAT, and CH DOWN buttons on the unit together over 5 seconds in power on condition.

The unit goes in to Service Mode

To release from this mode, disconnect AC Plug.

NOTE:

When loading with no cassette tape, push the portion (A) on Cassette Holder Unit so that the Safety Lever clear the 2 Tabs as shown in Fig. S13.

Cassette Holder Unit

Fig. S13

3. REMOVAL OF CASSETTE UP ASS 'Y, CYLINDER UNIT & CLEANER ARM UNIT

3.1. REMOVAL OF CASSETTE UP ASS 'Y

1. Remove 2 Screws to Slide up in direction of the arrow, and Cassette Up Ass'y is removed.

Safety Lever

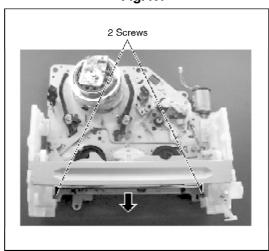
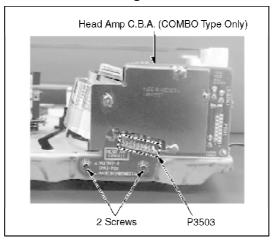


Fig. R1

3.2. REMOVAL OF CYLINDER UNIT

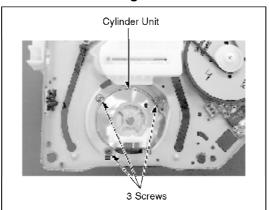
1. Remove 2 Screws and unsolder the P3503 to remove Head Amp C.B.A. (COMBO Type Only).

Fig. R2



2. Remove 3 Screws to remove Cylinder Unit.

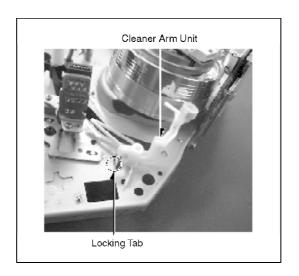
Fig. R3



3.3. REMOVAL OF CLEANER ARM UNIT

1. Unlock Locking Tab to remove Cleaner Arm Unit.

Fig. R4



4. INSTALLATION OF CASSETTE UP ASS 'Y, CYLINDER UNIT & CLEANER ARM UNIT

4.1. INSTALLATION OF CASSETTE UP ASS 'Y

1. Confirm the Mechanism Phase so that see through the Adjustment Holes of Sector Gear and Chassis.

NOTE:
When install the replacement parts; apply the Grease (VFKS0081).

Phase Adjustment

Adjustment Holes Sector Gear

Fig. I1

- 2. Place the Cassette Holder Unit on front end of the Cassette Up Ass'y.
- 3. Insert the convex portions of the Cassette Up Ass'y (Fig. I3) into the grooves of Chassis (Fig. I2).

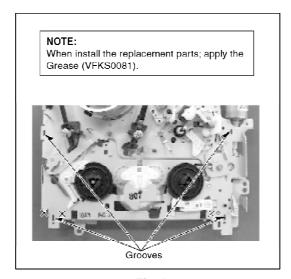
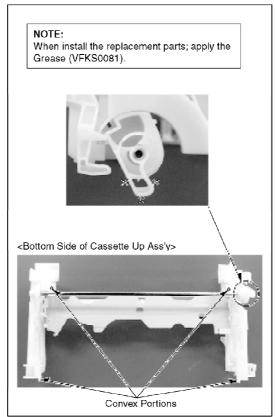
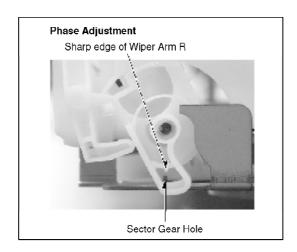


Fig. I3



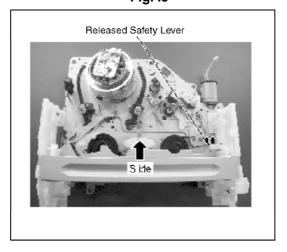
4. Reconfirm Cassette Up Ass'y is correct phase (Sharp edge of Wiper Arm R is in line with the Sector Gear Hole).

Fig. I4



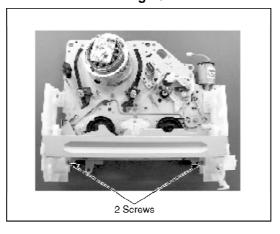
5. Slide Cassette Up Ass'y in the direction of the arrow, after released Safety Lever.

Fig. I5



6. Tighten the 2 Screws.

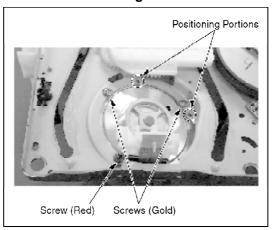
Fig. I6



4.2. INSTALLATION OF CYLINDER UNIT

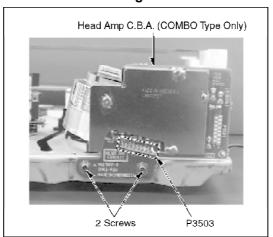
1. Set 2 small holes of a Cylinder bottom to 2 bosses on a Chassis, and tighten 3 Screws.

Fig. I7



2. Install the Head Amp C.B.A., and tighten 2 Screws and solder the P3503.

Fig. 18



NOTE:

When replacing Cylinder Unit, perform the TAPE INTERCHANGEABILITY ADJUSTMENT (Linearity Adjustment and X-Value Adjustment) and Clear the Total Elapsed Time to 0, after perform the PG SHIFTER ADJUSTMENT.

4.2.1. ATTENTION FOR REPLACING THE CYLINDER UNIT (VCR Type Only)

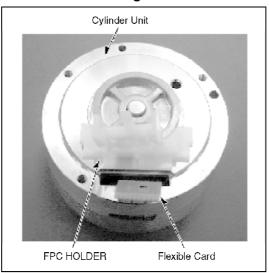
CAUTION:

Handle the Cylinder Flexble Card with care. When it damaged, you should replace it with a new Cylinder Unit.

1. Put the gloves on your hands.

- 2. Turn the Cylinder Unit over.
- 3. Insert the FPC HOLDER to the Cylinder Unit.

Fig. 19



4. Hook the Flexible Card to the FPC HOLDER.

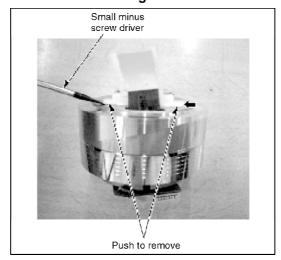
Fig. I10



NOTE:

- 1. When removing the FPC HOLDER, push stopper portion of the FPC HOLDER with a small minus screw driver and so on. And then pay attention for not to scratch the Cylinder and not to break the Head Chip.
- 2. FPC HOLDER is not reuseable. If removed, install a new one.

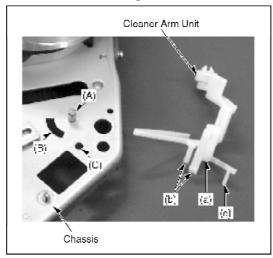
Fig. I11



4.3. INSTALLATION OF CLEANER ARM UNIT (Only a model with a Cleaner Arm Unit)

1. Insert (a) - (c) of Cleaner Arm Unit to (A) - (C) of Chassis.

Fig. I12

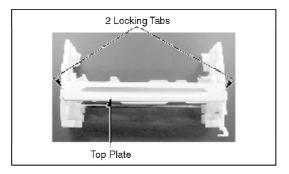


5. DISASSEMBLY / ASSEMBLY METHOD FOR CASSETTE UP ASS 'Y

5.1. DISASSEMBLY OF CASSETTE UP ASS 'Y

1. Unlock 2 Locking Tabs to remove the Top Plate.

Fig. E1

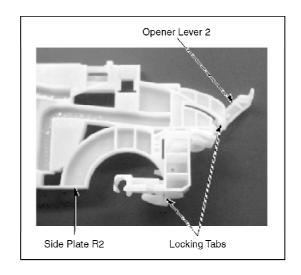


2. Remove the Main Shaft Unit from Holding Portions of Side Plate L and Side Plate R2.

Fig. E2 <Bottom view of Cassette Up Ass'y) Holding Portions Main Shaft Unit Side Plate R2 Cassette Holder Unit Side Plate L

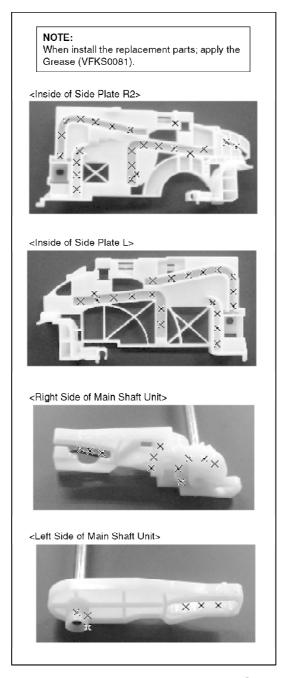
3. Unlock 2 Locking Tabs to remove Opener Lever 2.

Fig. E3



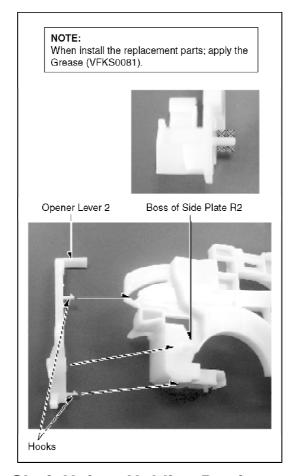
5.2. ASSEMBLY OF CASSETTE UP ASS 'Y

Fig. F1



1. Install the Opener Lever 2 into the boss of Side Plate R2 and Fit the Hooks.

Fig. F2

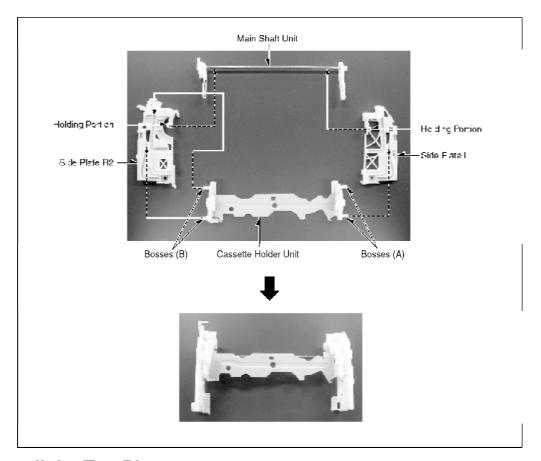


- 2. Install the Main Shaft Unit to Holding Portions of Side Plate R2 and Side Plate L.
- 3. Install 2 bosses (A) of Cassette Holder Unit in the slots of Side Plate L and Main Shaft Unit.

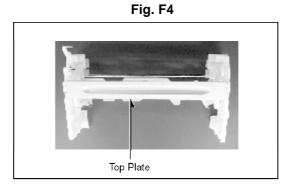
 Next, install 2 bosses (B) in the slots of Side Plate R2 and Main

Shaft Unit.

Fig. F3



4. Install the Top Plate.



6. DISASSEMBLY / ASSEMBLY METHOD FOR MECHANICAL CHASSIS SUB ASS 'Y

6.1. DISASSEMBLY OF MECHANICAL CHASSIS SUB ASS 'Y

1. Remove the Take Up Brake Spring, T Brake Arm UNIT and Reel Table (Take-up).

Caution:

Do not to touch brake surface of Reel Table.

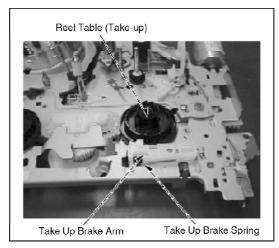
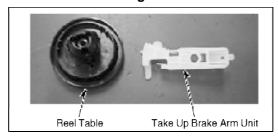


Fig. D2



2. Keep Pressing Take up Shaft Holder Unit, slowly turn LED Prism clockwise up to 45° to remove.

Caution:

The LED Prism is made of soft material, handle with care when removing.

3. Remove the Idler Arm and Idler Gears.

Fig. D3

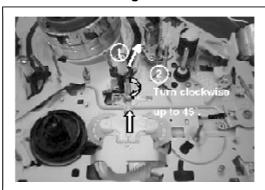
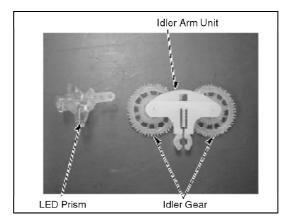
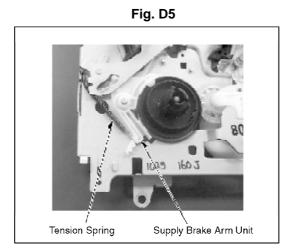


Fig. D4



4. Release the Tension Spring end to tip end of Supply Brake Arm Unit.



5. Unlock the Hooks of the boss on rear side of mechanism chassis to remove the Tension Arm Unit, and remove the Supply Brake Arm Unit and Reel Table (Supply).

Caution:

Do not to touch brake surface of Reel table.

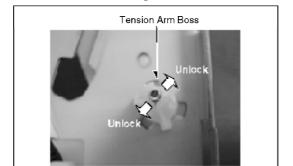
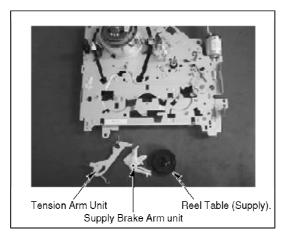


Fig. D6

Fig. D7



6. In order to cancel a lock, insert a previous thin minus screw driver etc. in the hole shown in <u>Fig. D8</u>, and press down from a top.

And then, slowly turn Full Erase Head counter-clockwise to remove.

Caution:

Do not to scratch tape running surface.

7. Slowly turn Tension Arm Boss counter-clockwise to remove.

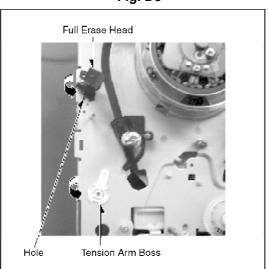
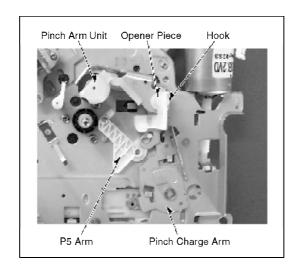


Fig. D8

8. Unlock the Hook to remove the Opener Piece, and remove the Pinch Arm Unit and P5 Arm Unit in order.



Note:

Remove of the Pinch Charge Arm is performed in step 12.

Pinch Arm Unit Opener Piece

Fig. D10

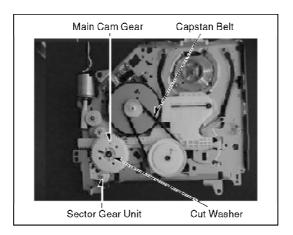
9. Remove the Cut Washer of the Main Cam Gear, and remove the Main Cam Gear and Sector Gear Unit.

P5 Arm Unit

Pinch Charge Arm

10. Remove the Capstan Belt.

Fig. D11



11. Remove the Cut Washer of the Center Clutch, and remove Center Clutch Unit, Change Lever Unit and Change Gear Spring, keep paying attention to do not lose the Change Gear Spring and the Cut Washer.

Fig. D12

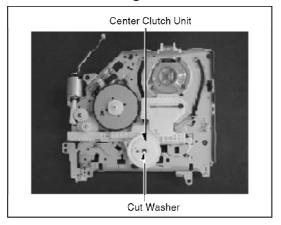
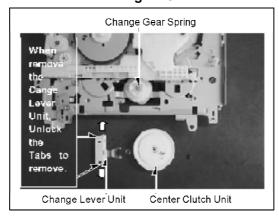


Fig. D13



12. Remove the Cut Washer, and push the Main Lever rightward to the limit and remove the Main Lever, and turn over the Mechanism Chassis and remove the Pinch Charge Arm shown in Fig. D9.

Fig. D14

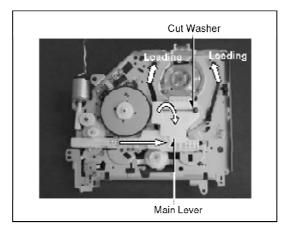
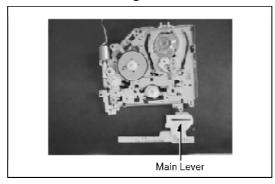


Fig. D15



13. Remove the Supply Loading Arm Unit and Take Up Loading Arm Unit.

Fig. D16

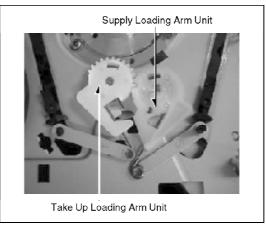
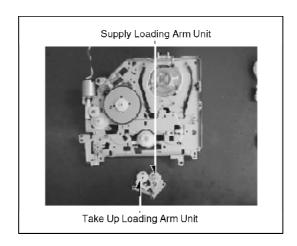
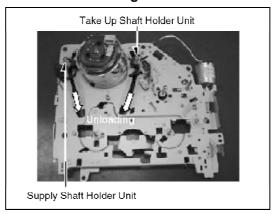


Fig. D17



14. Pull the Supply Shaft Holder Unit and Take Up Shaft Holder Unit toward you to the limit, and remove them.

Fig. D18



15. Remove the Cut Washer of the Torque Clutch Unit, and remove the Torque Clutch Unit, Intermediate Gear and Change Gear.

Fig. D19

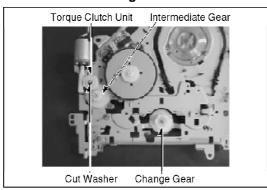
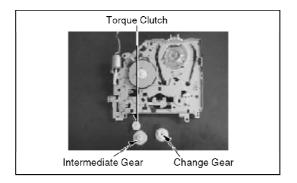


Fig. D20



16. Remove 2 Screws for the Stator and 3 Screws for the Capstan ASS'Y, and remove the Capstan ASS'Y.

Fig. D21

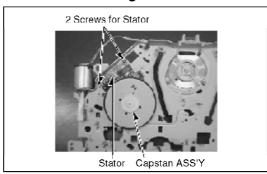
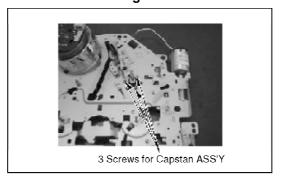


Fig. D22

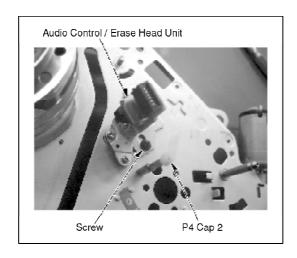


- 17. Remove the P4 Cap 2.
- 18. Remove a Screw for Audio Control/ Erase Head Unit, and remove the Audio Control/ Erase Head Unit.

Caution:

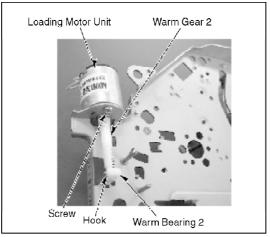
Do not to scratch or touch on the Head.

Fig. D23



- 19. Remove a Screw for the Loading Motor, and remove the Loading Motor Unit and Worm Gear 2.
- 20. Unlock the Hook to remove the Worm Bearing 2.

Fig. D24



6.2. ASSEMBLY AND PHASE ADJUSTMENT OF MECHANICAL CHASSIS SUB ASS 'Y

Fig. A1

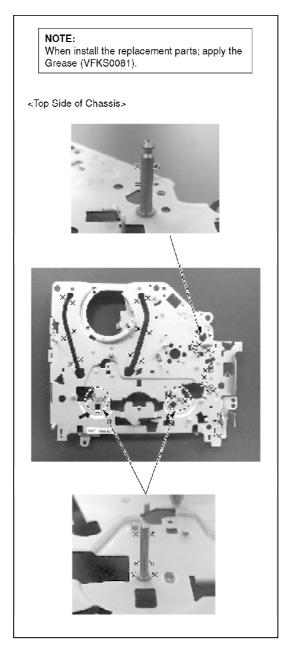
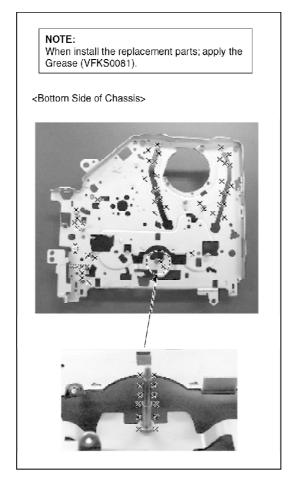


Fig. A2

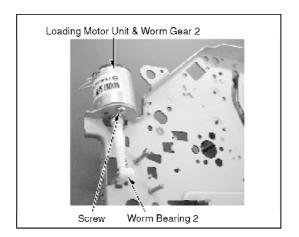


- 1. Install the Worm Bearing 2 into Chassis.
- 2. Set the Loading Motor Unit and Worm Gear 2 not to scratch the Worm Gear 2, and tighten the Screw with the Loading Motor Unit.

Fig. A3



Fig. A4

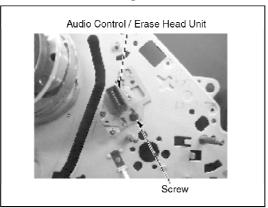


3. Install the Audio Control/ Erase Head Unit and tighten the Screw with Audio Control/ Erase Head Unit.

Caution:

Do not to scratch or touch on the Head.

Fig. A5



4. Install the Capstan ASS'Y, and tighten 5 Screws for the Capstan Ass'y by sequence 1, 2, 3, 4, 5.

Fig. A6

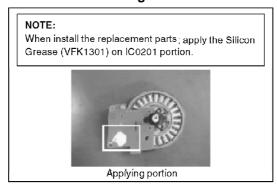


Fig. A7

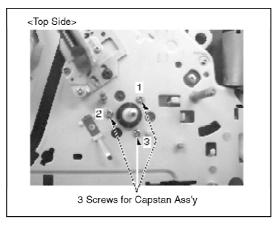
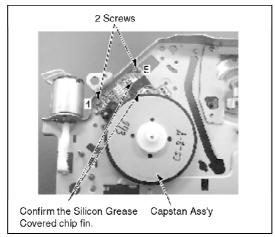


Fig. A8



5. Install Pinch Charge Arm, P5 Arm Unit, Pinch Arm Unit and Opener Piece in order.

Fig. A9

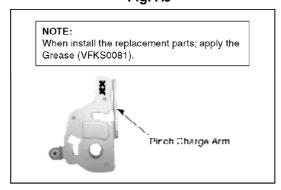


Fig. A10

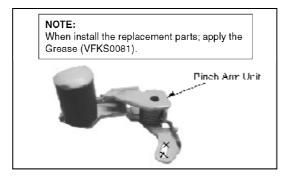
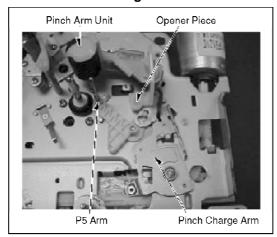


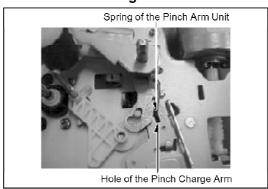
Fig. A11



Note:

Install the Spring of Pinch Arm Unit into the Hole of Pinch Charge Arm as shown in Fig. A12.

Fig. A12



6. Install the Supply Shaft Holder Unit and Take Up Shaft Holder Unit. Fig. A13

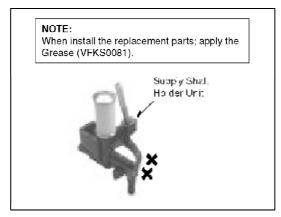
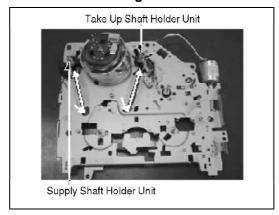


Fig. A14



- 7. Install the Intermediate Gear, Torque Clutch Unit and Cut Washer in order.
- 8. Install the Change Gear.

Fig. A15

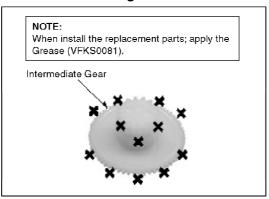
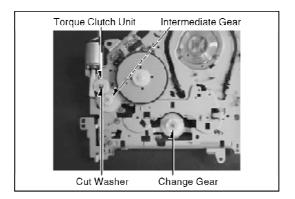
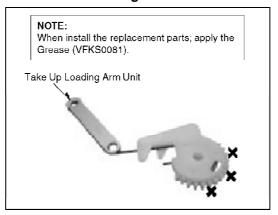


Fig. A16



9. Install the Take Up Loading Arm Unit.

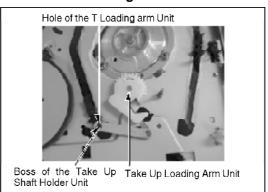
Fig. A17



Note:

Install the boss of the Take Up Shaft Holder Unit into the Hole of the Take Up Loading arm Unit.

Fig. A18



10. Install the Supply Loading Arm Unit, adjusting the phase between Take Up Loading Arm Gear and the Supply Loading Arm Gear as shown in Fig. A20.

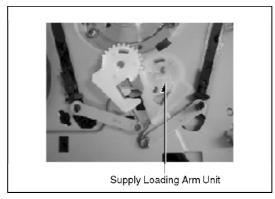
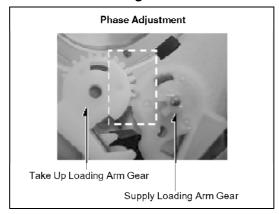
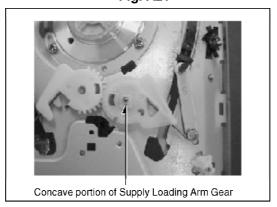


Fig. A20



11. Set the Concave portion of Supply Loading Arm Gear to the position shown in Fig. A21.

Fig. A21



12. Install the Main Lever so that the convex portion on rear side of the Main Lever (Fig. A23) is fitted into the concave portion of Take-up Loading Arm Gear (Fig. A21),and install the Cut Washer as shown in Fig. A24.

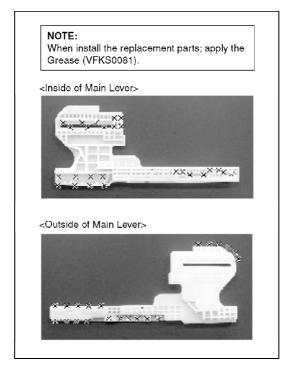
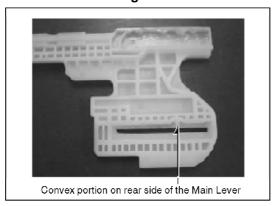


Fig. A23



13. Push the Main Lever left ward to adjust the phase so that the hole of Main Lever is met with the hole of Chassis as shown in Fig. A25.

Fig. A24

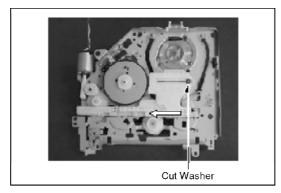
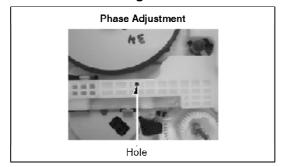


Fig. A25



14. Install the Change Lever Unit into the aperture of Change Gear.

Fig. A26

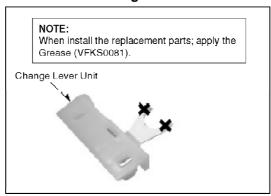
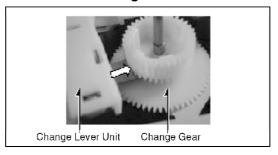
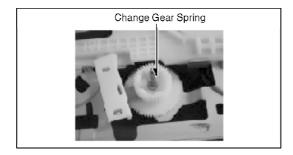


Fig. A27



15. Install the Change Gear Spring through the shaft for Change Gear.

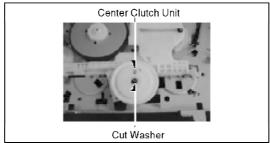


16. Install the Center Clutch Unit and the Cut Washer.

Note:

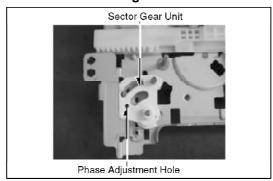
Keep paying attention to do not lose the Change Gear Spring and the Cut Washer.

Fig. A29



17. Install the Sector Gear Unit so that the Phase Adjustment Hole of Sector Gear Unit is met with the Adjustment Hole of Chassis.

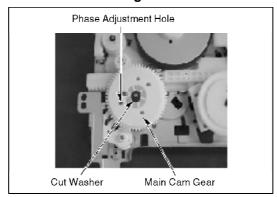
Fig. A30



18. Install the Main Cam Gear so that the Phase Adjustment Hole of Main Cam Gear is met with the hole of Chassis, and install the Cut Washer.



Fig. A32

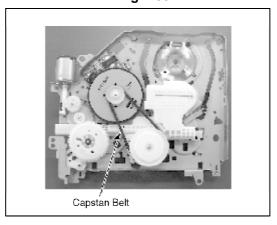


19. Install the Capstan Belt.

Caution:

Do not to twist the Capstan Belt.

Fig. A33

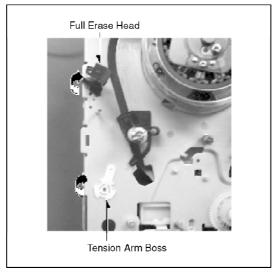


20. Install the Full Erase Head and turn it clockwise to Chassis by fit. Caution:

Do not to scratch tape running surface.

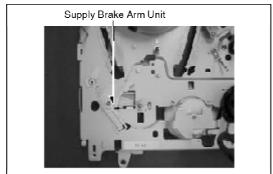
21. Install the Tension Arm Boss and turn it clockwise to Chassis by

Fig. A34



22. Install the Supply Brake Arm Unit.

Fig. A35

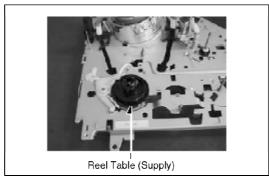


23. Install the Reel Table (Supply).

Caution:

Do not to touch brake surface of Reel Table.

Fig. F36



24. Install the Tension Arm Unit into the Tension Arm Boss.

Fig. A37

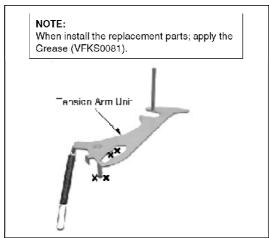
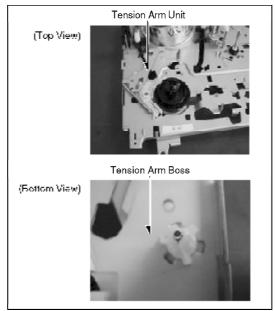
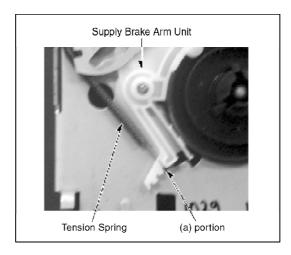


Fig. A38



25. Set the Tension Spring end to Supply Brake Arm Unit hook with tip end at (a) portion.

Fig. A39



26. Confirm that the Idler Gears are installed onto the Idler Arm, and install the Idler Arm to Chassis by fit.

Fig. A40

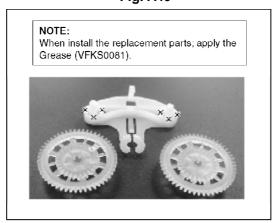
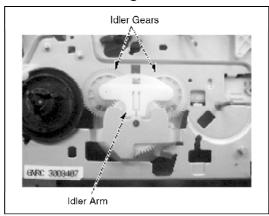


Fig. A41

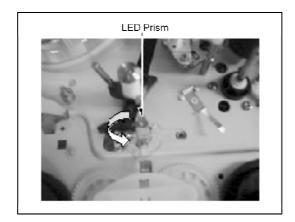


27. Install the LED Prism and turn it counter-clockwise to Chassis by fit.

Caution:

The LED Prism is easy to break, therefore treat it carefully.

Fig. A42

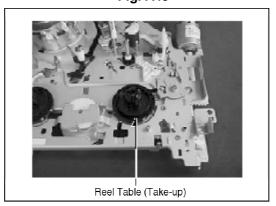


28. Install the Reel Table (Take-up).

Caution:

Do not to touch brake surface of Reel Table.

Fig. A43



29. Install the Take Up Brake Arm Unit, and then hook the Take Up Brake Spring to Chassis.

Fig. A44

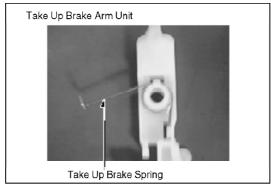
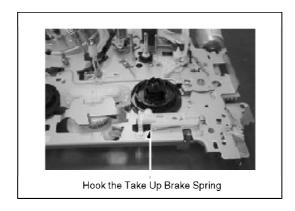
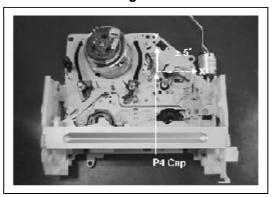


Fig. A45



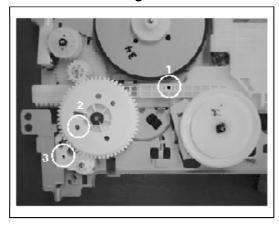
30. Install the P4 Cap so that the Direction of P4 Cap is on y-axis with tolerance \pm 5 $^{\circ}$.

Fig. A46



31. Confirm the Mechanism Phases so that see through the Adjustment Hole and hole of Chassis at three Adjustment portions.

Fig. A47



7. MECHANICAL ADJUSTMENT PROCEDURE

7.1. TAPE RUNNING SYSTEM CLEANING

Cleaning the tape Transport path before adjusting of Mechanism Chassis. The detail portion as shown below.

Cleaning portions:

P0 Post, Tension Posts, FE Head, P2 Post, Supply Inclined Post, Cylinder Unit, Take-up Inclined Post, P3 Post, A/C Head, P4 Post, Pinch Roller, Capstan Shaft and P5 Post.

Note:

FE Head, Cylinder Unit, A/C Head and Capstan Shaft are more important parts and pay attention to clean them.

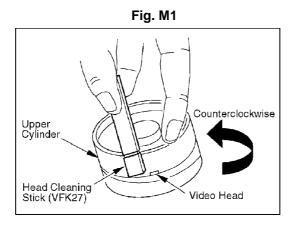
Caution:

- 1. Handle each component with care.
- 2. This process is not necessary if the above contents are guaranteed.

7.1.1. CLEANING PROCEDURE FOR THE UPPER CYLINDER UNIT

1. While slowly turning the Upper Cylinder Unit counterclockwise by hand, gently rub the Video Heads with a Head Cleaning Stick (VFK27) moistened with Ethanol.

When using a Cleaning Cassette, make sure to use "DRY" type only and be aware that excessive use can shorten head life.



Note:

- 1. Do not rub vertically or apply excess pressure to the Video Heads.

 Do not turn the Upper Cylinder Unit clockwise while cleaning.
- 2. After cleaning, use a Dry Head Cleaning Stick (VFK27) to remove any Ethanol remaining on the cylinder tape path. Otherwise, tape damage will occur.

7.2. P2 AND P3 POST ADJUSTMENT (PREADJUSTMENT)

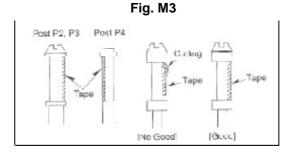
Equipment required:
Post Adjustment Screwdriver (VFK0329)

- 1. Remove the Top Plate.
- 2. Turn the Loading Motor unit until the unloading completes.
- 3. Rotate the P2 and P3 Posts clockwise to the end. (Fig. M2)
- 4. Rotate the P2 and P3 Posts twice counterclockwise. (Fig. M2)

Rotate the POST clockwise to the end

2. Rotate the POST twice counterclockwise

5. Playback the cassette tape and make sure that the edges of the tape are not curing at the bottom or top ends of the P2, P3 and P4 Posts as shown in Fig. M3.



6. If the curing appears, readjust the P2 and P3 Posts.

7.3. TAPE INTERCHANGEABILITY ADJUSTMENT

Carry out the following procedures for Tape Interchangeability Adjustment to do it correctly and smoothly.

- 1. LINEARITY (P2/ P3 POST) ADJUSTMENT
- 2. ADJUSTMENT OF P4 POST
- 3. HEIGHT ADJUSTMENT OF A/C HEAD
- 4. FINE-ADJUSTMENT OF A/C HEAD
- 5. ADJUSTMENT OF X-VALUE (PREADJUSTMENT)
- 6. FINE-ADJUSTMENT OF X-VALUE

If the Tape Interchangeability Adjustment is not perfect, repeat the above procedures from 1 to 6.

CAUTIONS:

Turn the Auto-Tracking to off, and set the tracking control to center fixing position.

To make an Adjustment Mode for Tape Interchangeability, press the FF and CH DOWN buttons simultaneously 5 seconds to set the Service Mode. Then press the CH UP and CH DOWN buttons simultaneously to set the Tracking center mode.

Note:

- 1. During the Tracking center mode, "TRACKING CENTER" will be displayed on the monitor.
- 2. To release from Tracking center mode, press the CH UP and CH DOWN buttons similaneously.

7.3.1. LINEARITY (P2 / P3 POST) ADJUSTMENT

Equipment required:

Alignment Tape (VFMS000H6)

Post Adjustment Screwdriver (VFK0329)

1. Connect the oscilloscope to the output of the Head Amp as shown in Fig. M4.

NOTE:

1. To get a stable waveform of the Head Amp output (RF envelope

- signal) on the oscilloscope, use the head switching pulse as a triggering signal as shown in Fig. M4.
- 2. For video models with FM Audio, make the LINEARITY (P2/ P3 POST) adjustment based FM Audio Envelope.

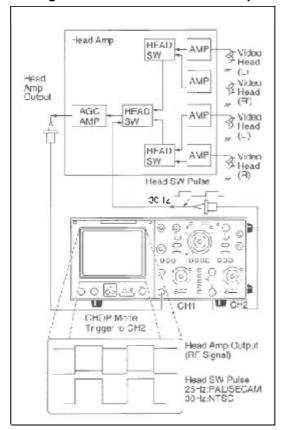
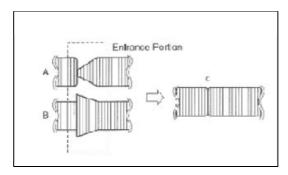


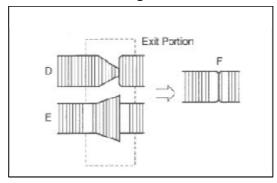
Fig. M4 Connection of Oscilloscope

- 2. Playback the Alignment Tape.
- 3. If the RF envelope appears like example "A" or "B" in Fig. M5, then adjustment of the tape guide post (P2: Entrance) is necessary.
- 4. Adjust the Tape Guidepost (P2) with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Fig. M5 "C".



- 5. If the envelope appears like "D" or "E" in Fig. M6, then adjustment of the tape guide post (P3: Exit) is necessary.
- 6. Adjust the tape guidepost (P3) in the same manner as the P2 post so that the exit portion becomes flat as shown in Fig. M6 "F".

Fig. M6



- 7. Keep pressing the tracking up/down (up or down buttons on the remote controller unit). The output envelope should vary nearly parallel with other condition as shown in Fig. M7.
- 8. Set the tracking control into center fix position and adjust for maximum RF envelope, whilst being as flat as possible.

Fig. M7

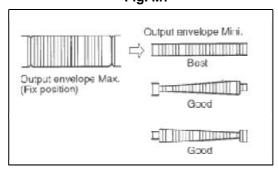
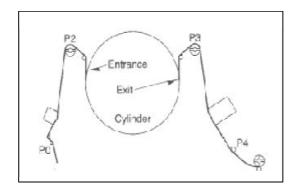


Fig. M8



Aim for P2, P3 Posts Adjustment

Fig. M9

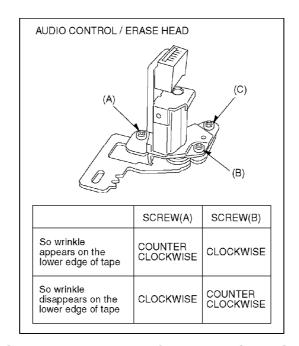
Envelope	Post Name	Adjustment Method
KK	P2 Post	Turn P2 Post counter-clockwise (Approx 1/2 revolutions)
	P2 Post	Turn P2 Post clockwise (Approx. 1/4 revolutions)
KK	P3 Post	Turn P3 Post clockwise (Approx.1/2 revolutions)
	P3 Post	Turn P3 Post counter-clockwise (Approx. 1/4 revolutions)
	P2/P3 Post	Turn P2 Post clockwise (Lose than revolution) Turn P3 Post counter-clockwise (Less than revolution)

7.3.2. ADJUSTMENT OF P4 POST

- 1. Playback the Alignment Tape.
- 2. Rotate the screw (A) or (B) until the wrinkle appears on the lower edge of tape at P4 Post.
- 3. Rotate the screw (A) or (B) until the wrinkle just disappears on the lower edge of tape at P4 Post.
- 4. Connect the oscilloscope to audio output terminal.
- 5. Rotate the screw (C) until Normal Audio signal is maximized.

NOTE:

- 1. The relation between the rotation direction of screws (A) and (B) and the condition of wrinkle on the lower edge at P4 Post as shown in Fig. M10.
- 2. Make sure that there is not the inclined wrinkle between P4 Post and Pinch Roller.



7.3.3. HEIGHT ADJUSTMENT OF AUDIO CONTROL / ERASE HEAD

< When moving the Audio Control/ Erase Head up >

- 1. Rotate the screw (A) counterclockwise until the wrinkle appears on the lower edge of tape at P4 Post.
- 2. Rotate the screw (B) counterclockwise until the wrinkle just disappears on the lower edge of tape at P4 Post.
- 3. Rotate the screw (C) counterclockwise until the Normal Audio signal is maximized.

(2)----(3)

< When moving the Audio Control/ Erase Head down >

- 1. Rotate the screw (B) clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
- 2. Rotate the screw (A) clockwise until the wrinkle just disappears

on the lower edge of tape at P4 Post.

3. Rotate the screw (C) clockwise until the Normal Audio signal is maximized.

Fig. M12

(1)-----(2)

7.3.4. FINE-ADJUSTMENT OF AUDIO CONTROL / ERASE HEAD

- 1. Connect the oscilloscope to the output of the Head Amp as shown in Fig. M4.
- 2. Playback the Alignment Tape.
- 3. Make sure that the condition of the wrinkle at P4 Post. If the condition of the wrinkle is out of specification, P4 Post adjustment has to be performed as follows. Turn the screw (A) counterclockwise until the wrinkle appears on the lower edge of tape at P4 Post. Turn screw (A) clockwise until the wrinkle disappears on the lower edge of tape at P4 Post.
- 4. Turn the screw (C) until the Normal Audio signal is maximized.

NOTE:

Make sure that the audio output does not increase when push the upper and lower edges of tape around Audio Control/ Erase Head.

Fig. M13

Head Amp Output (RF Signal)

Maximum

7.3.5. ADJUSTMENT OF X-VALUE (PREADJUSTMENT)

Equipment Required:

H-Position Adjustment Gear Driver (VFK0330)

Specification: Less than 15msec.

1. Connect the oscilloscope to the Normal Audio output and the Video output.

Both output signals should be fixed by the external trigger.

- 2. Playback the Alignment Tape and set the tracking control into center fix position.
- 3. Adjust Audio Control/ Erase Head position by the H-Position Adjustment Gear Driver (VFK0330) to meet the signal fault portion of the Normal Audio output and the Video output signals (Less than 15msec.).
- 4. After meeting the signal fault portion, Audio Control/ Erase Head position by the H-Position Adjustment Gear Driver (VFK0330) until the video envelope is maximized.

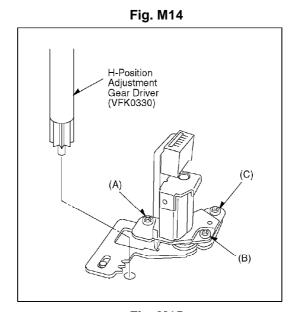
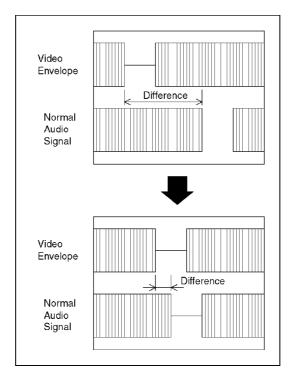


Fig. M15



7.3.6. FINE-ADJUSTMENT OF X-VALUE

Equipment Required:
H-Position Adjustment Gear Driver (VFK0330)

- 1. Connect the oscilloscope to the Normal Audio output and the Video output.
 - Both output signals should be fixed by the External trigger.
- 2. Playback the Alignment Tape and set the tracking control into center fix position.
- 3. Adjust Audio Control/ Erase Head position by the H-Position Adjustment Gear Driver (VFK0330) until the video envelope level is maximized at the tracking center fix position.

NOTE:

During X-Value Fine Adjustment, in case the video envelope level becomes 0, Pre-adjustment of X-Value should be adjusted again due to it is possible to vary the X-Value adjustment.

7.4. PG SHIFTER ADJUSTMENT

<VCR type>

Purpose: Determine the Video Head Switching

Point during Playback.

Symptom of May cause Head Switching Noise and/

MisadjustmerRr Vertical Jitter.

:

Test Point: TP3001 (Main C.B.A.),

TP6205 (Main C.B.A.)

Specification T = $6 H \pm 0.5 H (0.38 ms \pm 0.03 ms)$

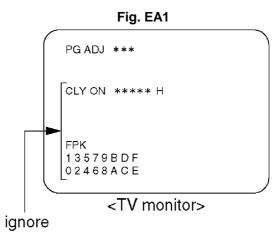
:

Mode: SP Playback Equipment: Oscilloscope,

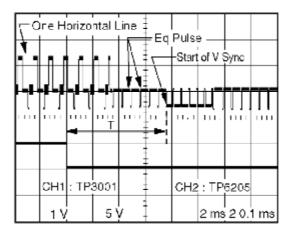
VHS Alignment Tape (VFMS0003H6),

TV monitor

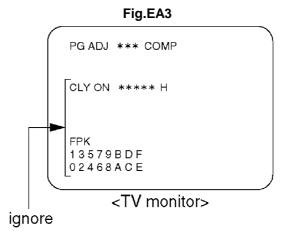
- 1. Insert the VHS Alignment Tape. Enter service mode by pressing and holding FF and CH DOWN buttons on VCR together for more than 5 seconds.
- 2. Play back SP mode. Then, press 100 button on the remote to enter EVR PG SHIFTER ADJUSTMENT mode. PG ADJUSTMENT screen will appear on the TV Monitor.



- 3. Connect the channel-1 scope probe to TP3001 and the channel-2 scope probe to TP6205. Used TP6205 as a trigger
- 4. Adjust value so that the trailing edge of the head switching pulse is placed 6 H \pm 0.5 H (0.38 ms \pm 0.03 ms) before the start of the vertical sync pulse by pressing CH UP and CH DOWN buttons on the remote.



5. After adjustment is completed, press REC button on the remote. Then " COMP " will appear on the TV monitor and adjusted value will be written to Memory IC (IC6004).



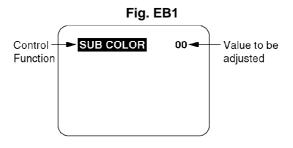
6. Press STOP button on the remote to release from EVR PG SHIFTER ADJUSTMENT MODE.

<COMBO type>

HOW TO ENTER EVR ADJUSTMENT MODE

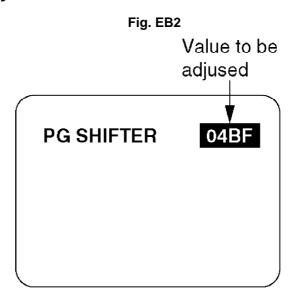
Press and hold STOP, PLAY, and VOL- buttons on the unit together over 5 seconds with no cassette inserted.

The adjustment overlay will appear.



HOW TO ENTER EVR PG SHIFTER ADJUSTMENT MODE

- 1. Enter EVR adjustment mode.
- 2. Press CH UP/DOWN key on the remote control to select "PG SHIFTER".
- 3. Insert the VHS Alignment Tape and playback in SP mode. The adjustment overlay will appear.
- 4. Press VOL+ key on the remote control to select the value.



How to adjust:

Press CH UP key on the remote control to adjust the value.



How to release from EVR PG Shifter Adjustment Mode: Press the POWER button OFF.

The adjusted value will be written Memory IC (IC6004).

7.5. SERVICE FIXTURES AND TOOLS

